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# CATALOGUE

OF THE

# TROY LAUNDRY MACHINERY CO.

LIMITED.

MANUFACTURERS OF AND DEALERS IN

## LAUNDRY MACHINERY AND LAUNDRY SUPPLIES.

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TROY, N. Y.

GENERAL OFFICE AND EASTERN MANUFACTORY,  
648 AND 650 FULTON STREET.

NEW YORK SALESROOM,  
15 WARREN ST.

FOREIGN SALESROOMS, }

116 QUEEN VICTORIA STREET,  
LONDON, E. C., ENGLAND.

CHICAGO, ILLS.

WESTERN MANUFACTORY AND SALESROOM,  
395-401 FIFTH AVENUE.

SAN FRANCISCO SALESROOM,  
583 MISSION STREET.

GR. FRANKFURTER ST. 86,  
BERLIN, GERMANY.

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EIGHTH EDITION, 1891.

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ALLEN CONKLING, TREASURER AND GENERAL MGR.

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## PREFACE.

IN PRESENTING to our patrons the Eighth Edition of our Catalogue, we desire to express our gratitude for the patronage they have favored us with in the past, and we hope by serving them promptly and efficiently in the future to merit a continuance of same.

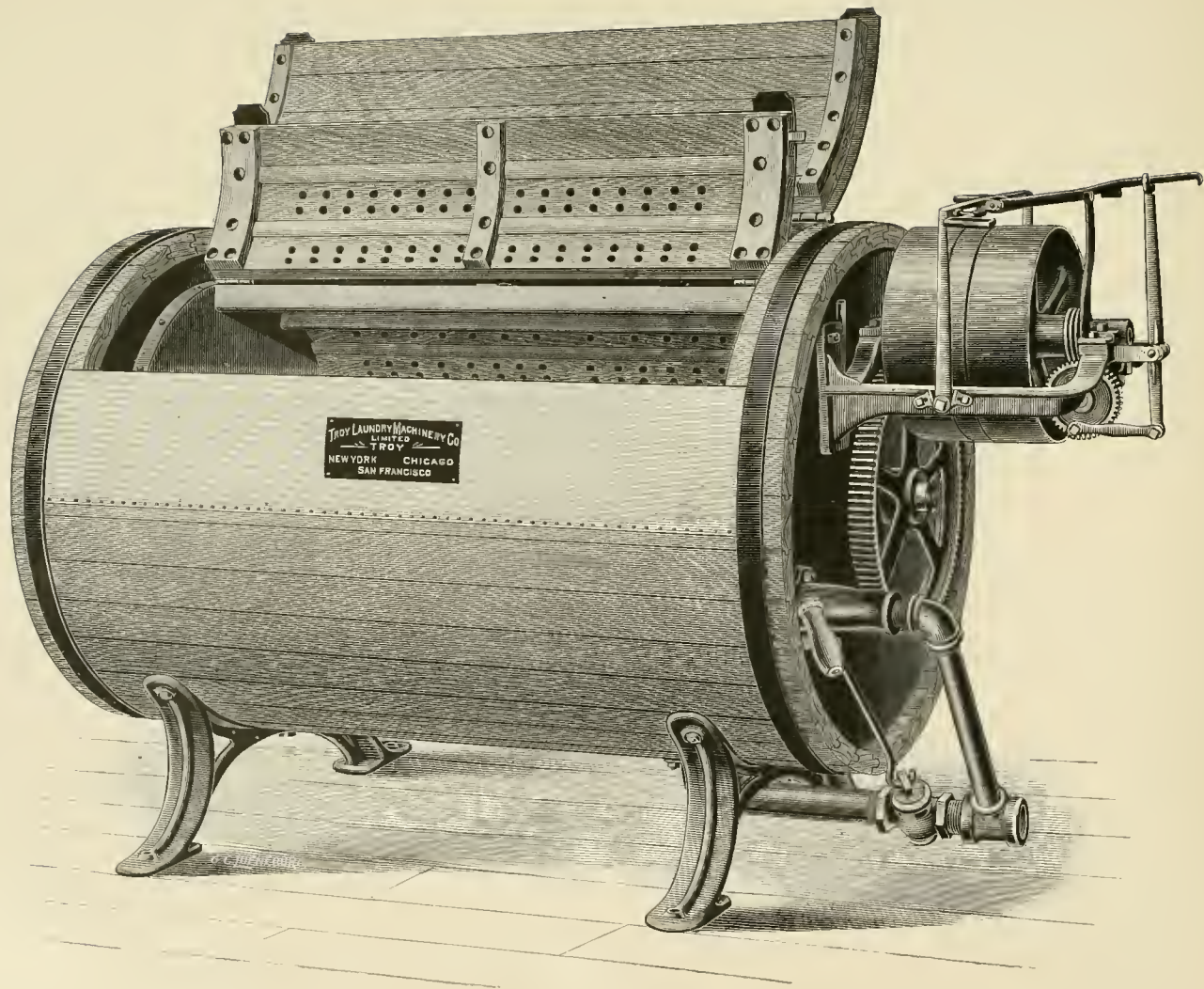
It is with pleasure that we call your attention to the new machines and improvements that we have added to our line (since our last edition was issued), believing that these improvements will not only reduce the cost, but facilitate the work as well. We have expended thousands of dollars in experimental work, and our future policy will be to spare no expense in improving and perfecting our machinery in every detail which will benefit the trade. It is an indisputed fact that the TROY LAUNDRY MACHINERY Co., LIMITED, does the largest business and is recognized as a paragon in its line.

We are not content, however, to rest on our past laurels, but we propose to prove to our patrons that we intend to assist them to make the laundry business one of the greatest industries of the age.

In taking contracts to fit up laundries complete, we have associated with our line of machinery, boilers, engines, filters, fans, steam pumps, etc., of the best makes, and we have no hesitation in guaranteeing them to give perfect satisfaction. Our laundry wagons and carts are also constructed of the best material for the purpose, and it is the desire of the TROY LAUNDRY MACHINERY Co., LIMITED, not to recognize or sell any machinery or supplies that do not possess true merit.

We wish to call the attention of superintendents of public institutions, proprietors and managers of hotels, and also of architects, to our line of machinery, believing that a careful consideration of its merits will convince them that it is, above all others, the best adapted for laundering all kinds of goods. As we have competent draughtsmen and laundry engineers, we are prepared to furnish plans and specifications promptly and we make a speciality of fitting up laundries complete.

For any additional information in our line, please write us and it will be cheerfully furnished.



**HYDRAULIC WASHERS.****SIZE OF INSIDE CYLINDER, 24 X 30 INCHES.**

Diameter of pulleys, 10 inches. Revolutions, 135. Belts,  $1\frac{1}{2}$  and  $1\frac{3}{4}$  inches. Pulley on line shaft, 8-inch straight face. Floor space, 32 x 64 inches. Weight, 675 pounds.

**SIZE OF INSIDE CYLINDER, 36 X 30 INCHES.**

Diameter of pulleys, 14 inches. Revolutions, 145. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 44 x 62 inches. Weight, 1,200 pounds.

**SIZE OF INSIDE CYLINDER, 29 X 48 INCHES.**

Diameter of pulleys, 14 inches. Revolutions, 150. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 37 x 80 inches. Weight, 1,150 pounds.

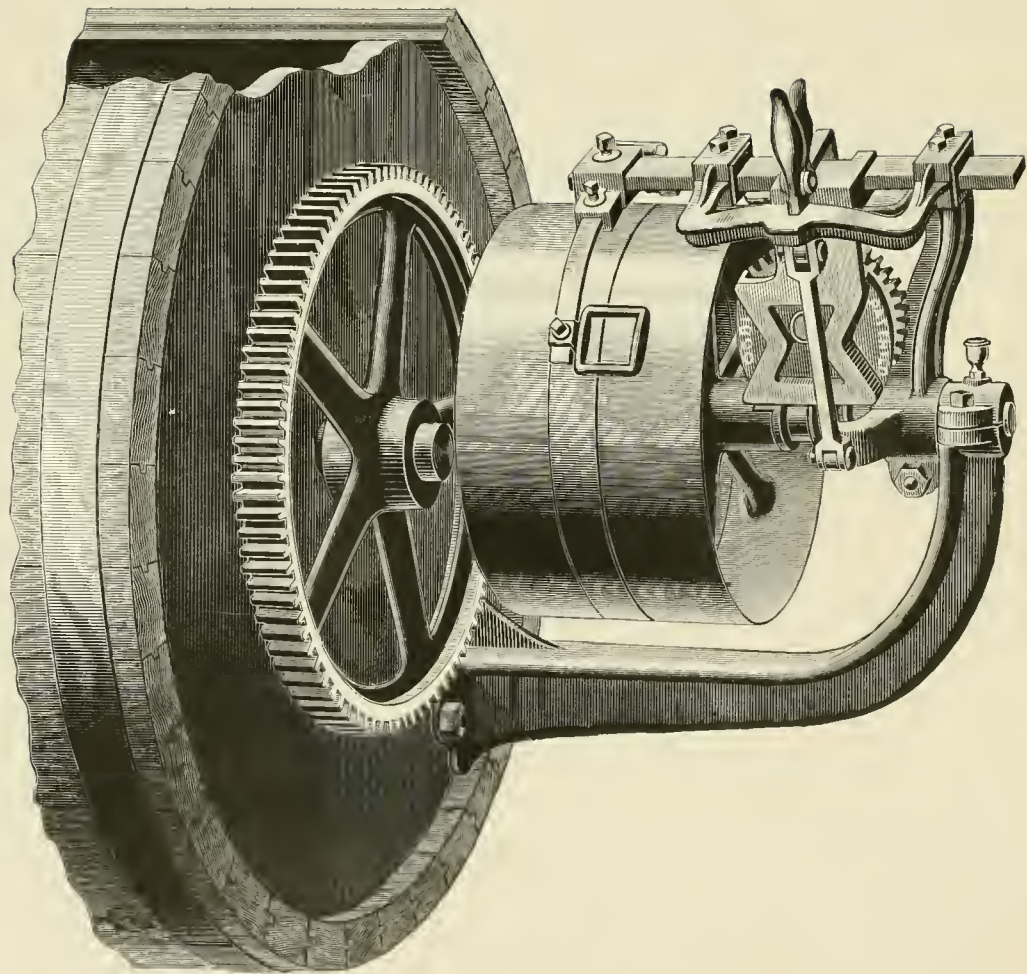
**SIZE OF INSIDE CYLINDER, 36 X 48 INCHES.**

Diameter of pulleys, 14 inches. Revolutions, 145. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 44 x 80 inches. Weight, 1,400 pounds.

**SIZE OF INSIDE CYLINDER, 36 X 54 INCHES.**

GEARED AT BOTH ENDS.

Diameter of pulleys, 16 inches. Revolutions, 130. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 52 x 99 inches. Weight, 1,600 pounds.





OUR automatic reversing movement, as shown on opposite page, has no complicated parts, is strong, durable and easy to adjust

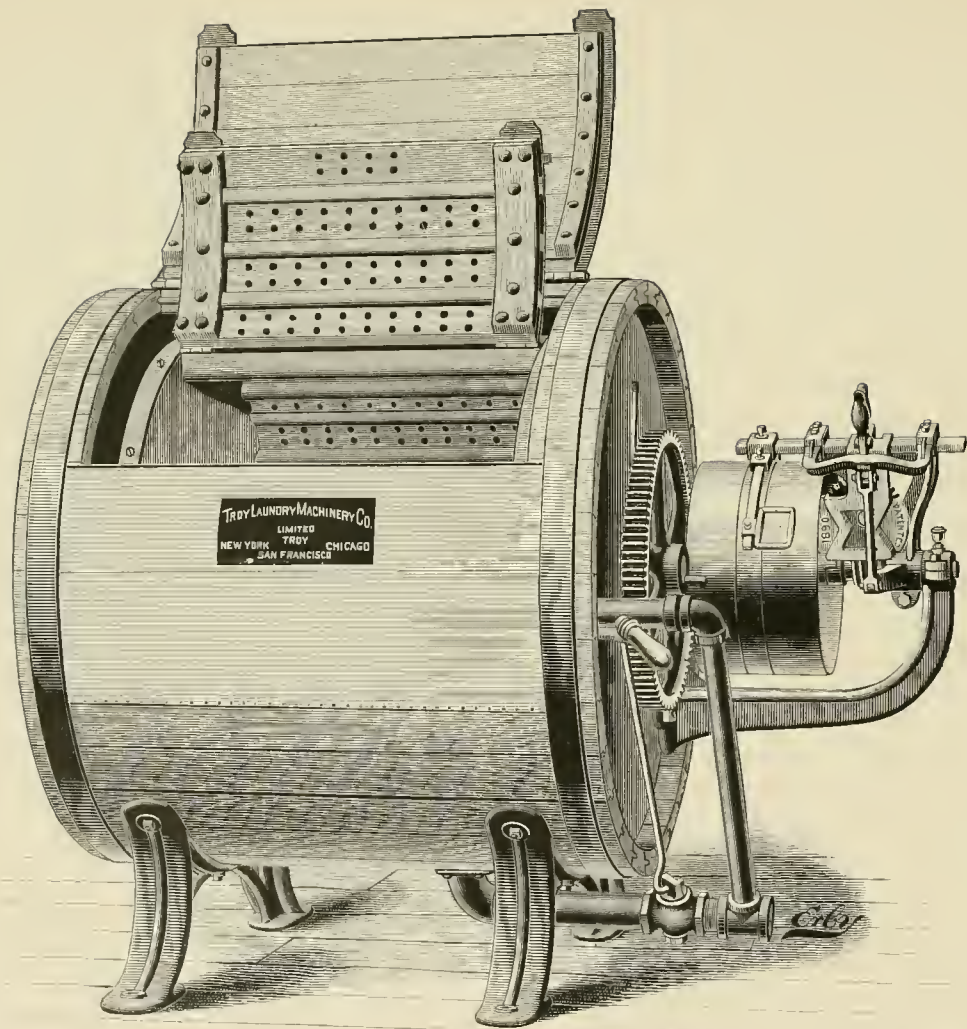
It consists, first, of a bracket securely fastened to the washer;

Second, a frame which can be moved or shifted in its angular position to correspond with the location of the belts;

Third, a horizontal sliding bar, provided with oppositely extending arms, at the outer ends of which are attached adjustable loops which engage the driving belts;

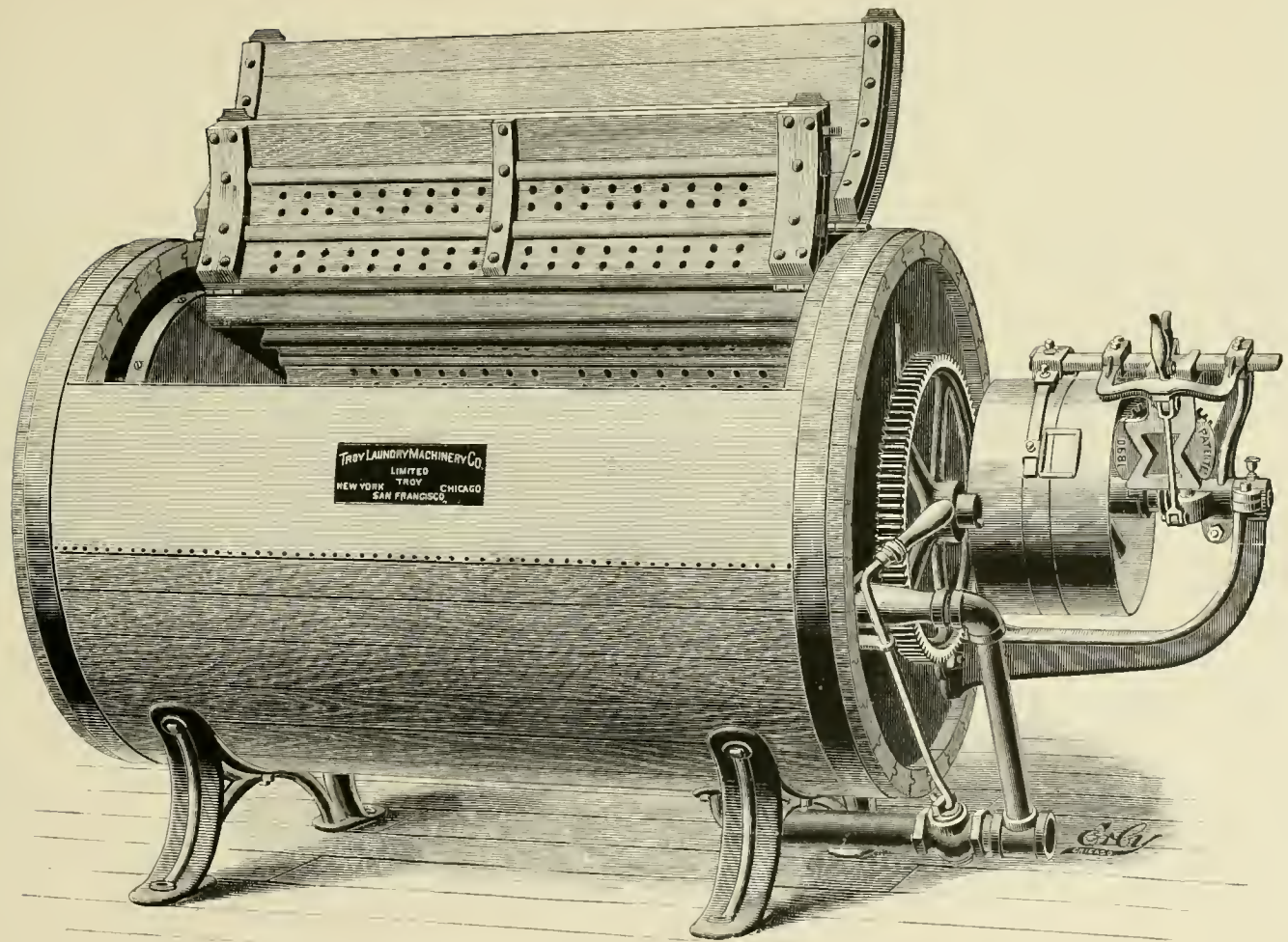
Fourth, a cam plate pivoted to the hand lever and adapted for engagement with a stud which is secured in, and projects from, the face of a worm wheel;

Fifth, a hand lever with a slotted opening pivotally connected with the cam plate, so that when the lever is swung outwardly or inwardly upon the pivot the cam plate is moved with it toward or from the worm wheel, thereby disengaging or engaging the stud from the cam plate, and at the same time locking the hand lever in the locking bracket, which stops and locks the machine.



TROY LAUNDRY MACHINERY CO.  
LIMITED  
TROY  
NEW YORK CHICAGO  
SAN FRANCISCO

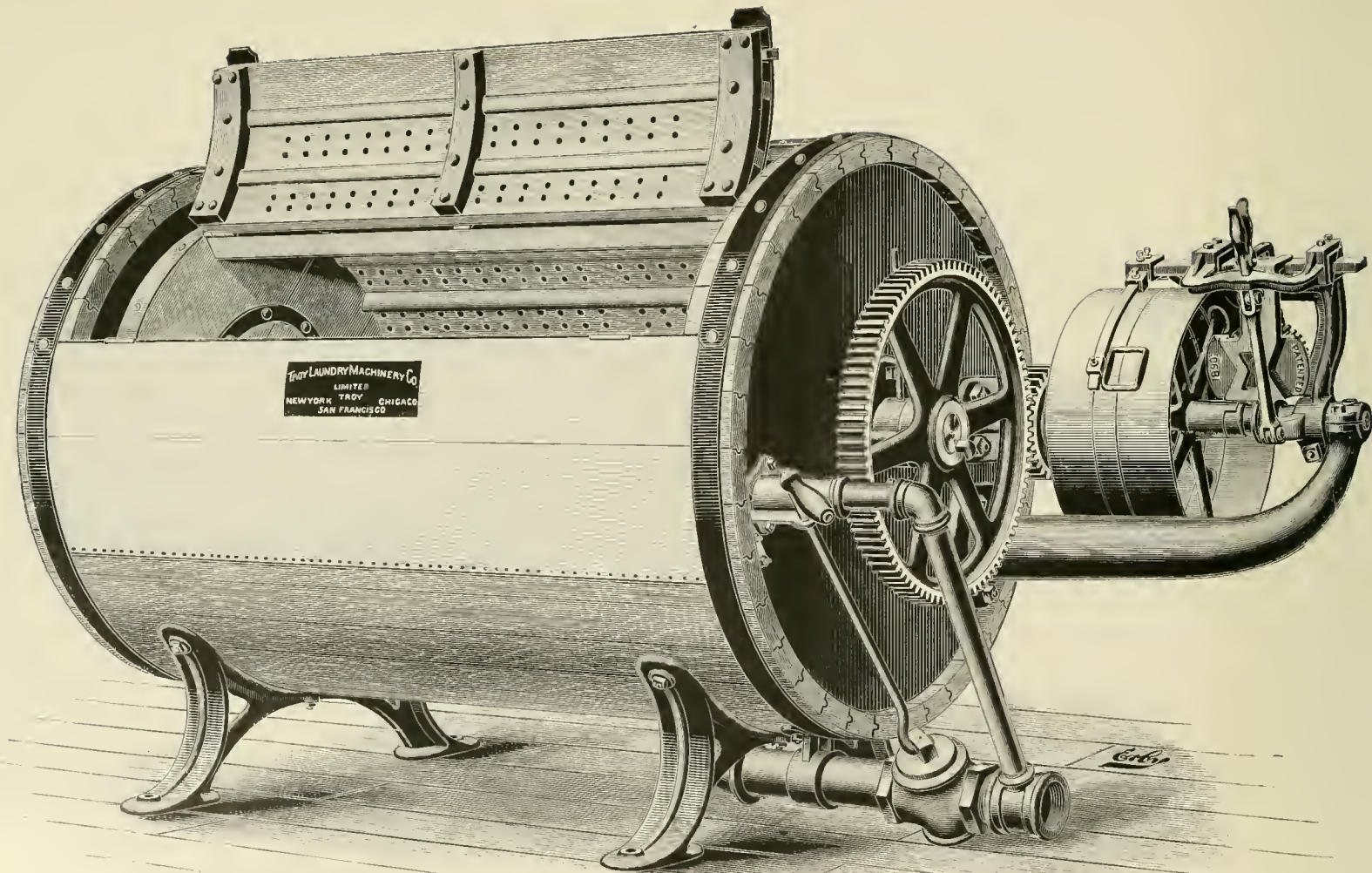
C. B. R.



TROY LAUNDRY MACHINERY CO.  
LIMITED  
TROY CHICAGO  
SAN FRANCISCO

1890

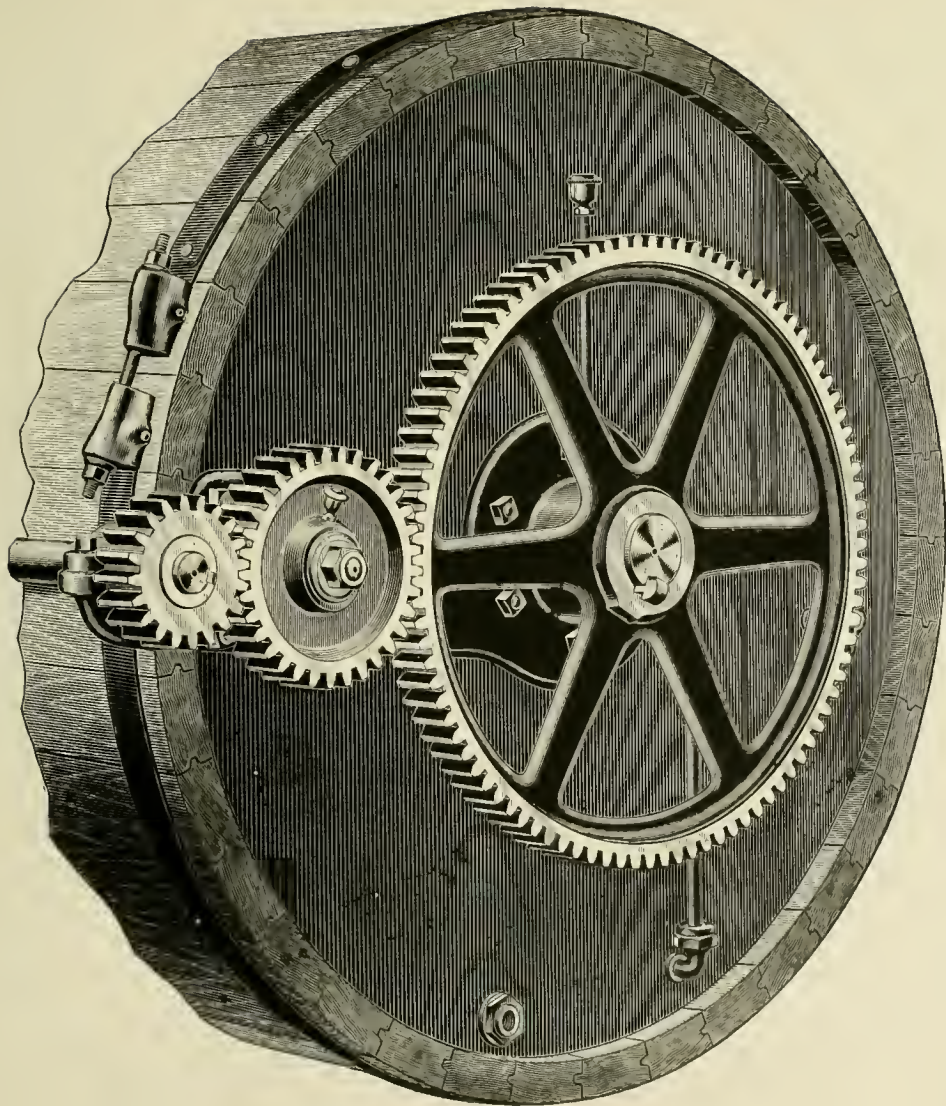




TROY LAUNDRY MACHINERY CO  
LIMITED  
NEW YORK TROY CHICAGO  
SAN FRANCISCO

Cater





END VIEW OF WASHER NOT  
SHOWN ON OPPOSITE PAGE.

**HYDRAULIC WASHERS.****SIZE OF INSIDE CYLINDER, 36 X 30 INCHES.**

Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 44 x 66 inches. Weight, 1,200 pounds.

**SIZE OF INSIDE CYLINDER, 29 X 48 INCHES.**

Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 37 x 84 inches. Weight, 1,150 pounds.

**SIZE OF INSIDE CYLINDER, 29 X 56 INCHES.**

Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 37 x 92 inches. Weight, 1,200 pounds.

**SIZE OF INSIDE CYLINDER, 36 X 48 INCHES.**

Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 44 x 84 inches. Weight, 1,400 pounds.

**HYDRAULIC WASHERS.****SIZE OF INSIDE CYLINDER, 36 X 54 INCHES.**

Diameter of pulleys, 18 inches. Revolutions, 150. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10 inch, straight face. Floor space, 50 x 97 inches. Weight, 1,600 pounds.

**SIZE OF INSIDE CYLINDER, 36 X 54 INCHES.**

GEARED AT BOTH ENDS.

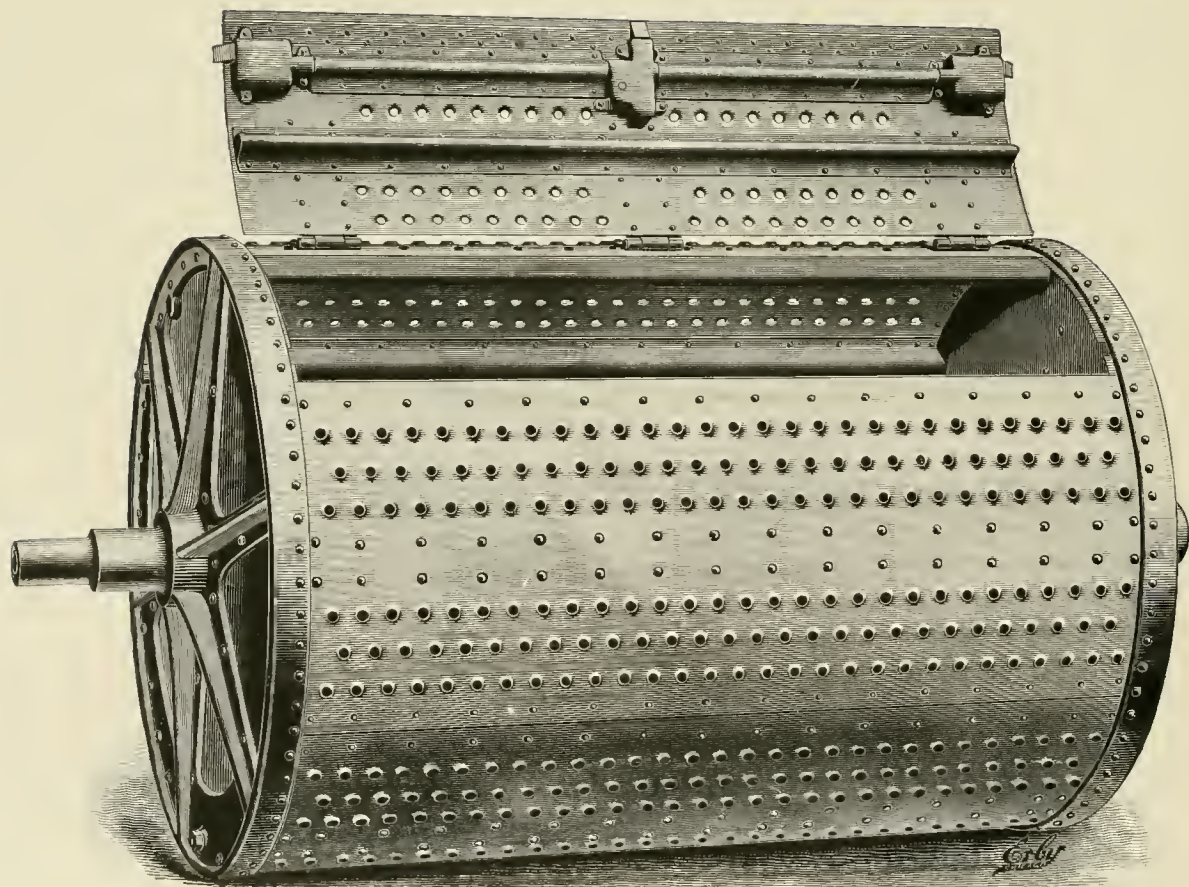
Diameter of pulleys, 20 inches. Revolutions, 135. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10 inch, straight face. Floor space, 55 x 97 inches. Weight, 2,200 pounds.

**SIZE OF INSIDE CYLINDER, 36 X 62 INCHES.**

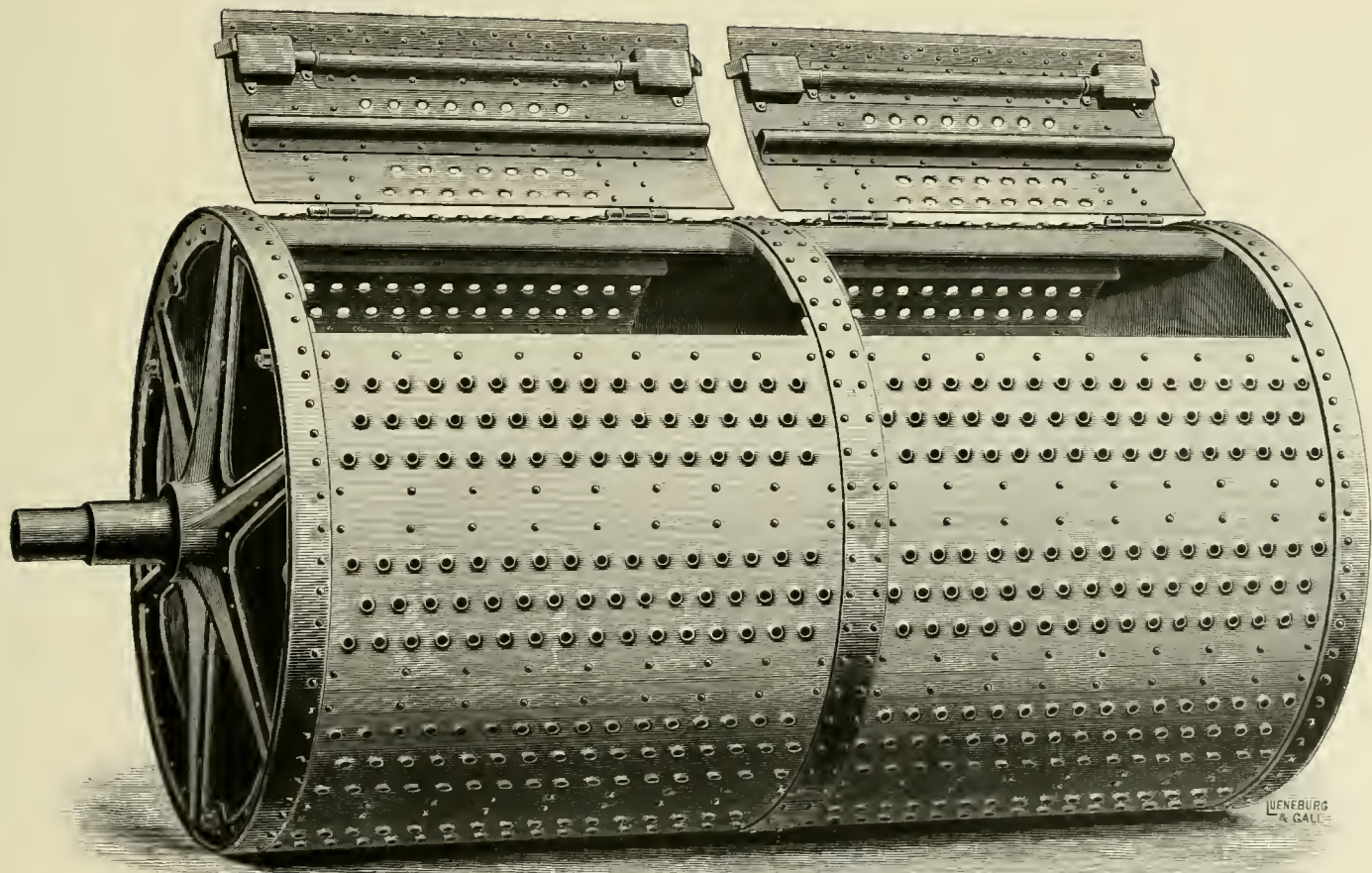
GEARED AT BOTH ENDS.

Diameter of pulleys, 20 inches. Revolutions, 135. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10 inch, straight face. Floor space, 55 x 105 inches. Weight, 2,350 pounds.

We can furnish these machines with iron heads, and either wood lifting or iron sliding doors, as desired.



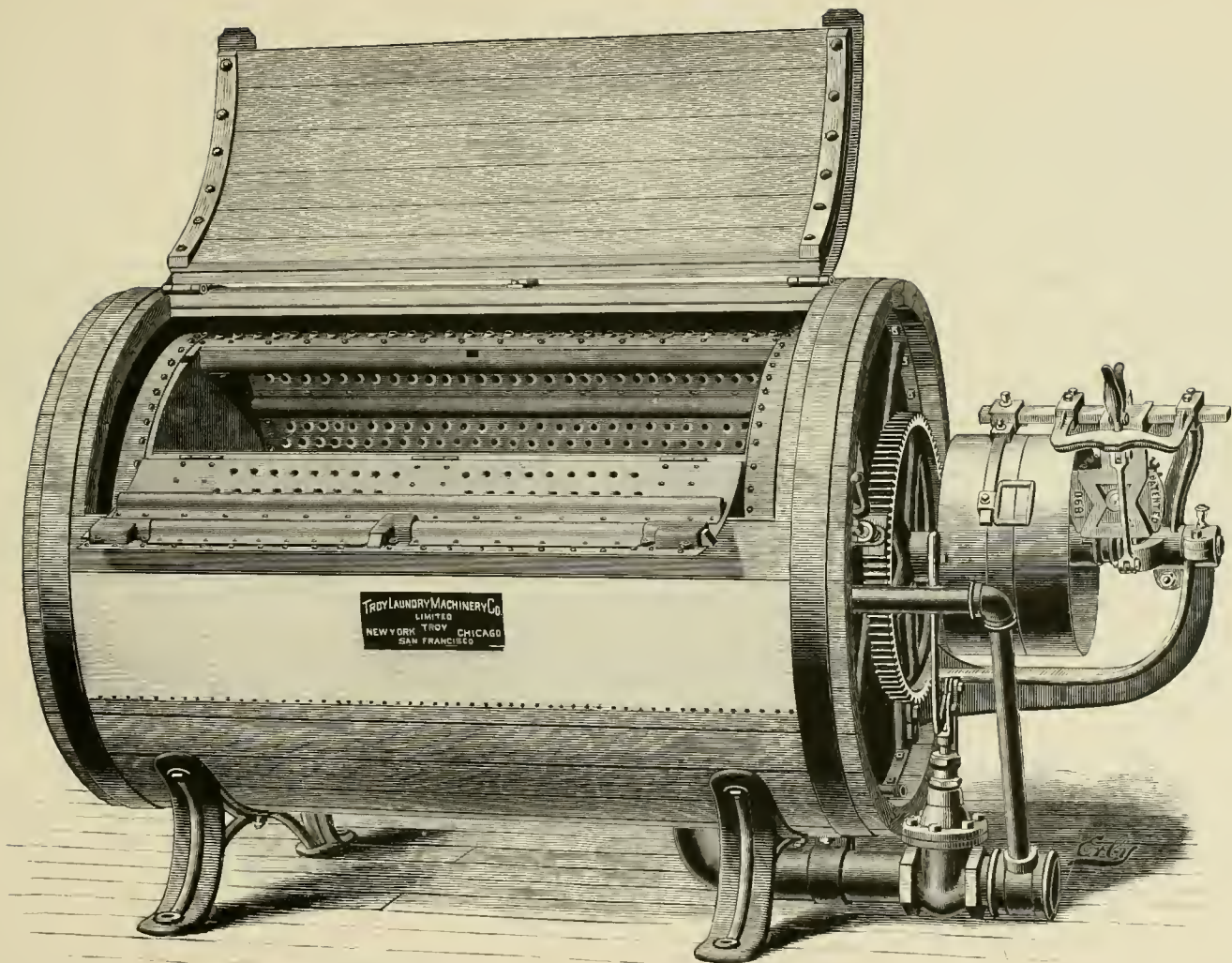




**BRASS CYLINDERS.**

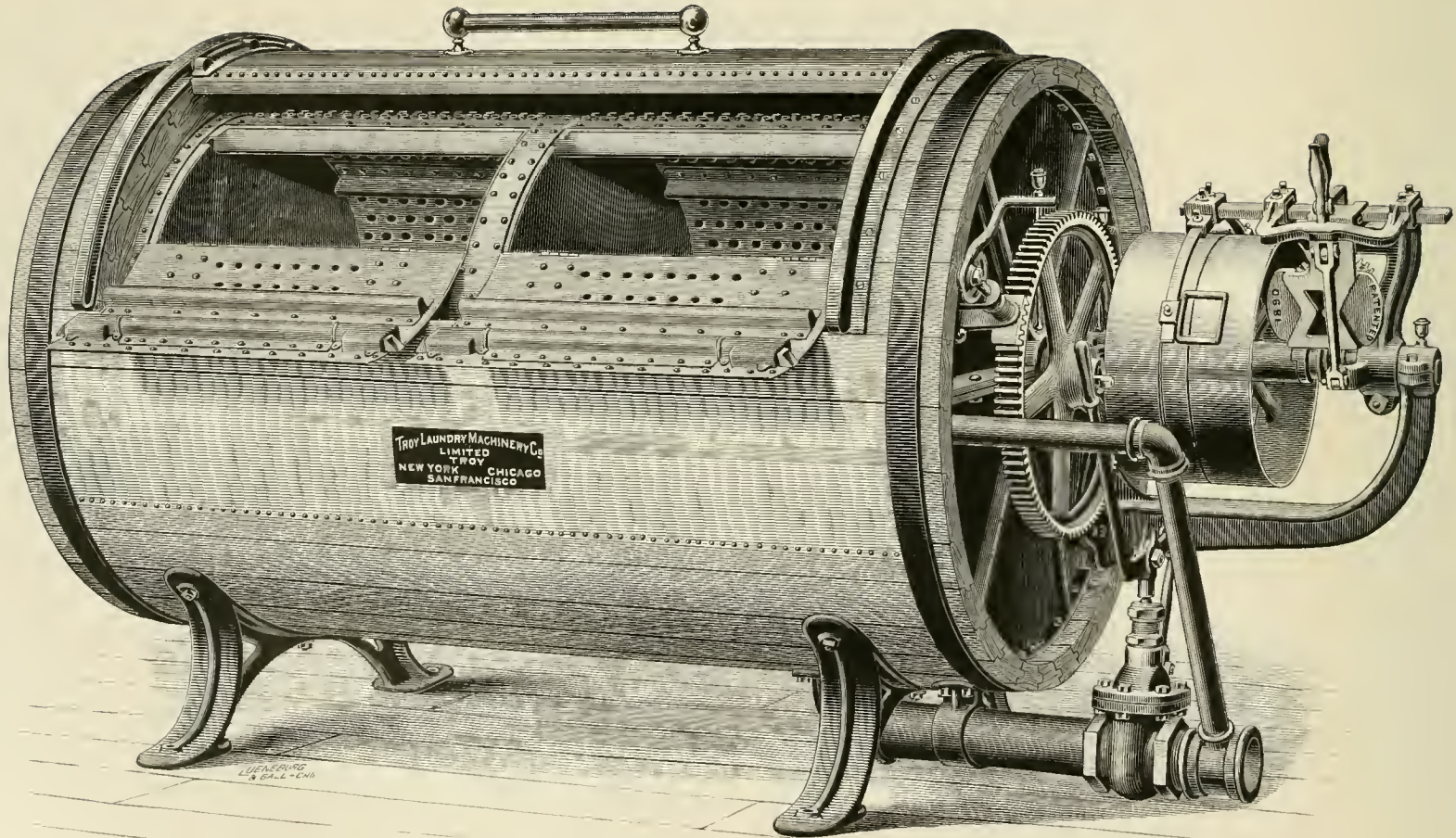
**T**HESE cylinders are made of No. 13, half hard brass, riveted on iron heads with No. 1 copper rivets. The heads have an inwardly projecting flange at their periphery, extending over the sheet brass which relieves the rivets of the strain by the falling of the goods. There are three truss rods, which tie the heads together, running through these cylinders inside of the ribs. The heads are lined with a No. 11 sheet brass circle. There are thirteen ribs: seven  $1\frac{1}{4}$  inches and six  $1\frac{3}{4}$  inches high, made of No. 13 brass, riveted alternately with No. 0 copper rivets. The embossed holes in these cylinders prevent any possibility whatever of the edges cutting the goods. The catches are strong and heavy, which prevent the doors, when the cylinders are in operation, from springing.

The general construction of these cylinders throughout is so perfect that with reasonable care they will last many years; consequently they are not only the most economical, but are more effective and cleaner than those constructed of wood.



TROY LAUNDRY MACHINERY CO.  
LIMITED  
NEW YORK TROY CHICAGO  
SAN FRANCISCO





TROY LAUNDRY MACHINERY Co  
LIMITED  
TROY CHICAGO  
NEW YORK SAN FRANCISCO

L. H. B. 1890  
G. A. L. - ENG.



**BRASS CYLINDER WASHERS.****SIZE OF INSIDE CYLINDER, 32 X 46 INCHES.**

Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10 inch, straight face. Floor space, 41 x 84 inches. Weight, 1,450 pounds.

**SIZE OF INSIDE CYLINDER, 32 X 54 INCHES.**

WITH PARTITION.

Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10 inch, straight face. Floor space, 41 x 92 inches. Weight, 1,700 pounds.

**SIZE OF INSIDE CYLINDER, 36 X 30 INCHES.**

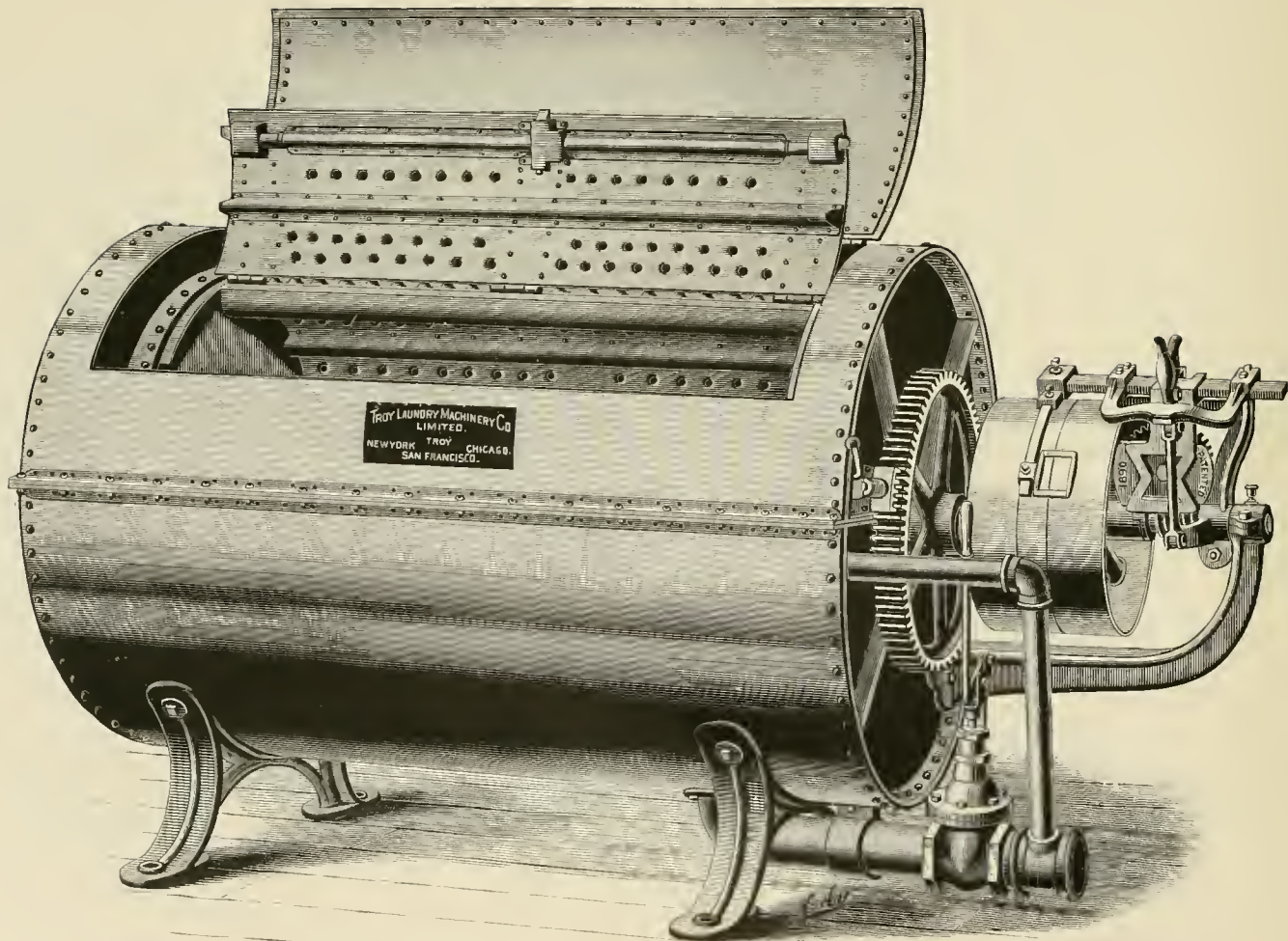
Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10 inch, straight face. Floor space, 44 x 66 inches. Weight, 1,400 pounds.

**SIZE OF INSIDE CYLINDER, 36 X 62 INCHES.**

WITH PARTITION. GEARED AT BOTH ENDS.

Diameter of pulleys, 20 inches. Revolutions, 135. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10 inch, straight face. Floor space, 55 x 105 inches. Weight, 2,600 pounds.

These machines are furnished with either wood lifting or iron sliding doors.



TROY LAUNDRY MACHINERY CO  
LIMITED.  
NEW YORK TROY CHICAGO  
SAN FRANCISCO.

**BRASS WASHERS.****SIZE OF INSIDE CYLINDER, 32 X 46 INCHES.**

Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 41 x 84 inches. Weight, 1,400 pounds.

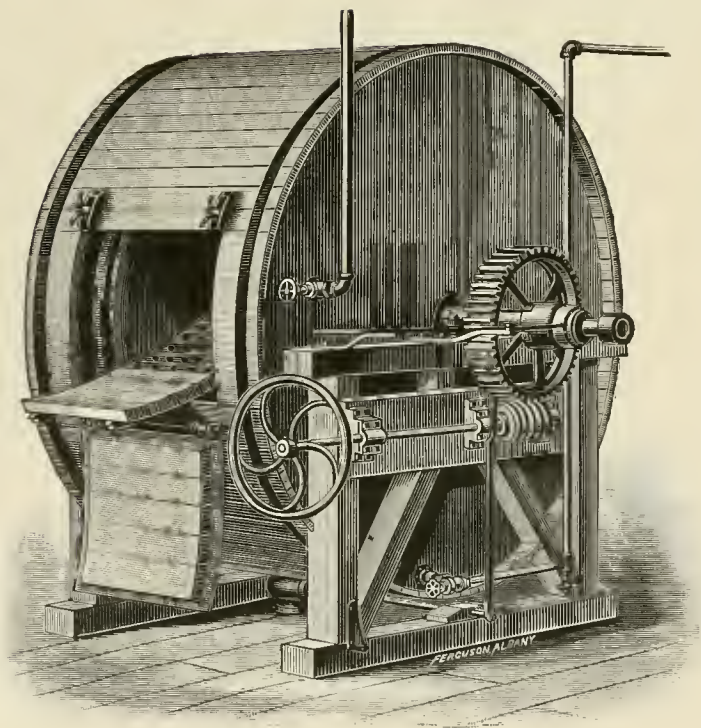
**SIZE OF INSIDE CYLINDER, 32 X 54 INCHES.****WITH PARTITION.**

Diameter of pulleys, 16 inches. Revolutions, 170. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 41 x 92 inches. Weight, 1,700 pounds.

**SIZE OF INSIDE CYLINDER, 36 X 62 INCHES.****WITH PARTITION. GEARED AT BOTH ENDS.**

Diameter of pulleys, 20 inches. Revolutions, 135. Belts,  $1\frac{3}{4}$  and  $2\frac{1}{4}$  inches. Pulley on line shaft, 10-inch straight face. Floor space, 55 x 105 inches. Weight, 2,600 pounds.

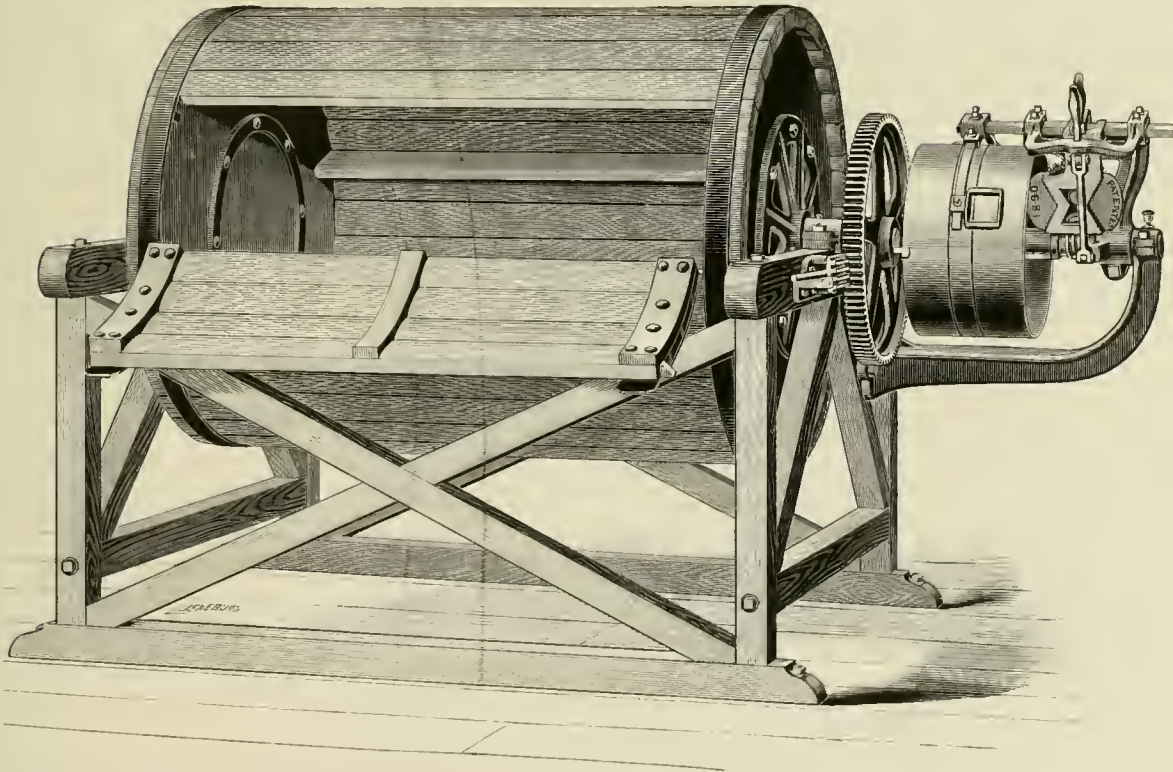
These machines are furnished with either lifting or rolling doors.



### IMPROVED DASH WHEEL.

THE dash wheel is driven by a large pulley on opposite side, not shown in cut. It should make from 22 to 35 revolutions per minute, depending upon the size. Floor space, from 3 to 6 feet by 4 to 10 feet. Weight, from 2,500 to 4,000 pounds, according to size.



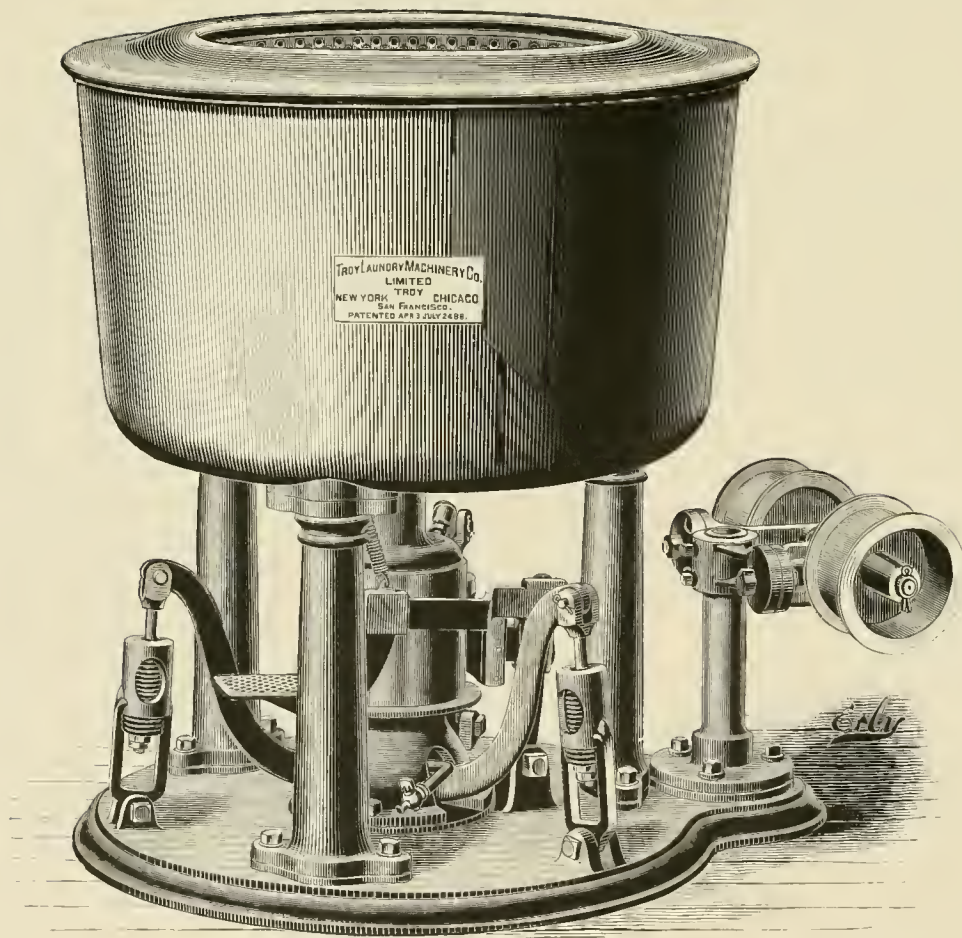


## THE TUMBLER.

WE are building this machine to fill a long-felt want in laundries doing plain work. Goods taken from the extractor are necessarily matted together. This machine will tumble and loosen the goods without doing them any injury.

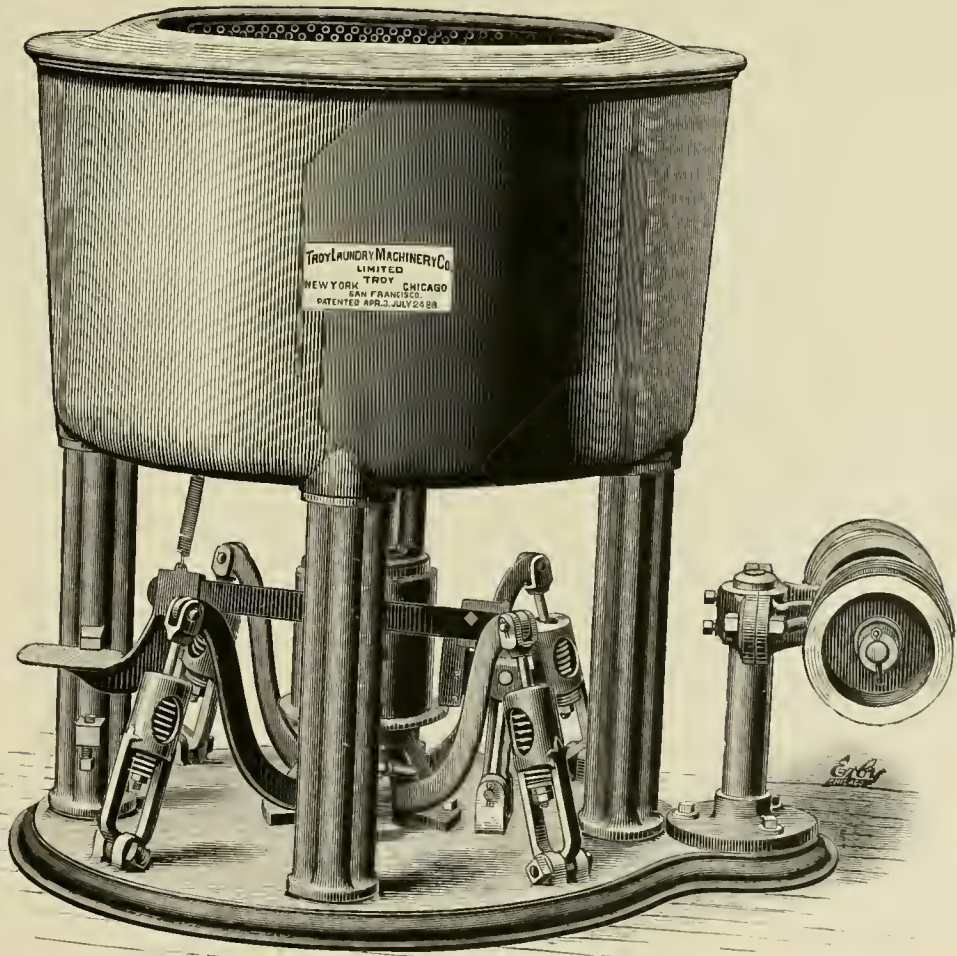
Size of Cylinder,  
37 x 48 inches.

Diameter of pulleys,  
16 inches. Revolutions  
170. Belts, 1 $\frac{3}{4}$  and  
2 $\frac{1}{4}$  inches. Pulley on  
line shaft, 10 inch  
straight face. Floor  
space, 50 x 84 inches.  
Weight, 800 pounds.



TROY LAUNDRY MACHINERY CO.  
LIMITED  
NEW YORK TROY CHICAGO  
SAN FRANCISCO.  
PATENTED APR 3 1888

*Early*



TROY LAUNDRY MACHINERY CO.  
LIMITED  
TROY  
NEW YORK CHICAGO  
SAN FRANCISCO  
PATENTED APR. 3, JULY 24 88

G. B. G.

### **CENTRIFUGAL EXTRACTORS.**

**W**E build two sizes: 22 and 26 inch baskets, of the best hammered copper, heavily tinned. The 26 inch basket has a double bottom. The spindle is made of steel and runs in a gun metal bearing 7 inches long. The end of the spindle rests on hardened steel washers. The pivotal connection between the bearing and base is formed by a ball and socket joint, which allows the basket to adjust itself to an uneven load. A safety ring surrounds the spindle, which is in line with the base of the curb, to prevent the basket from striking the case, thereby avoiding any accident when running at a high rate of speed.

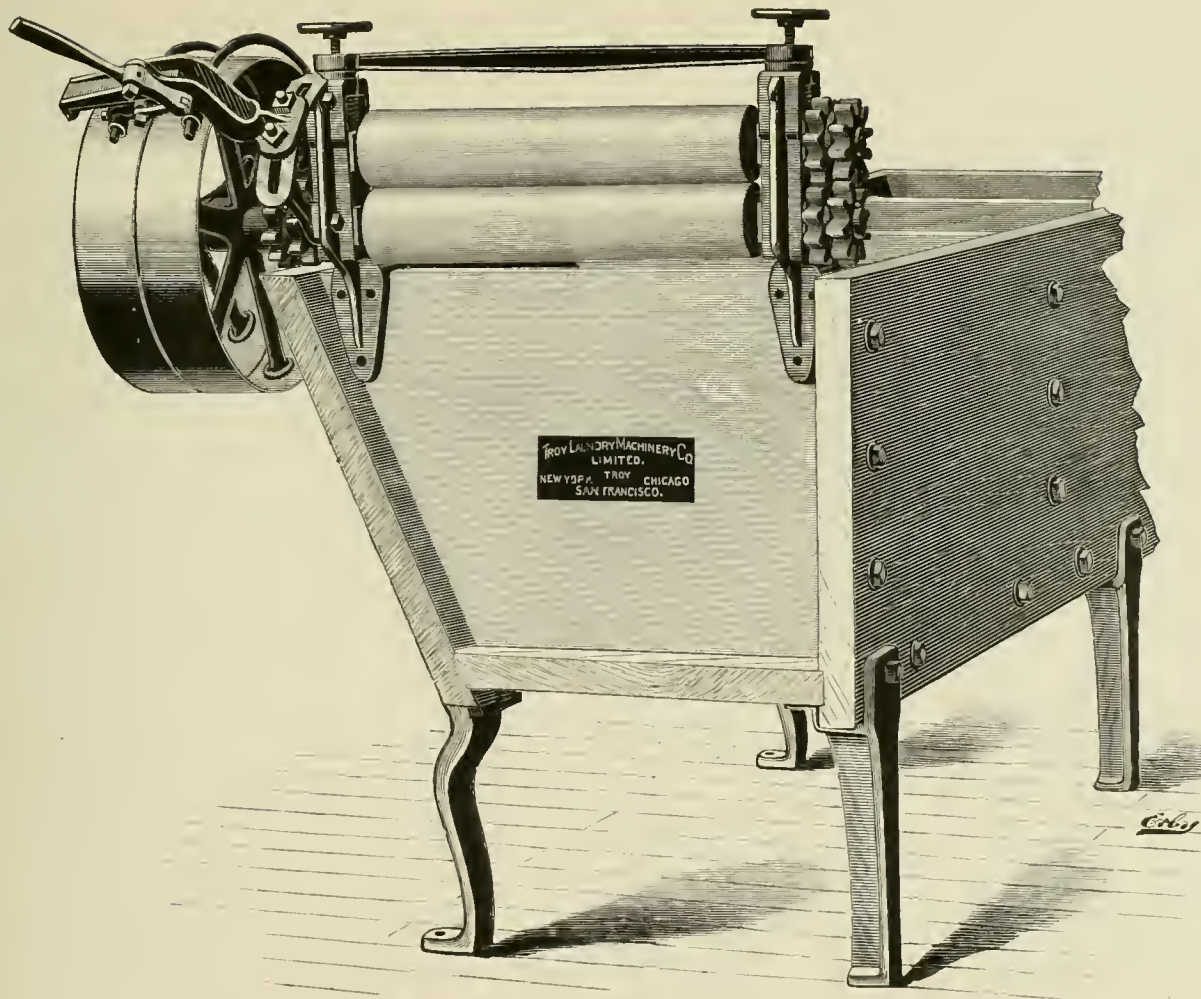
#### **22 INCH BASKET.**

The counter-shaft runs 475 revolutions per minute. Tight and loose pulleys on counter are 8 inches in diameter and 3 inch face. Floor space, 28 x 39 inches. Weight, 1,000 pounds.

#### **26 INCH BASKET.**

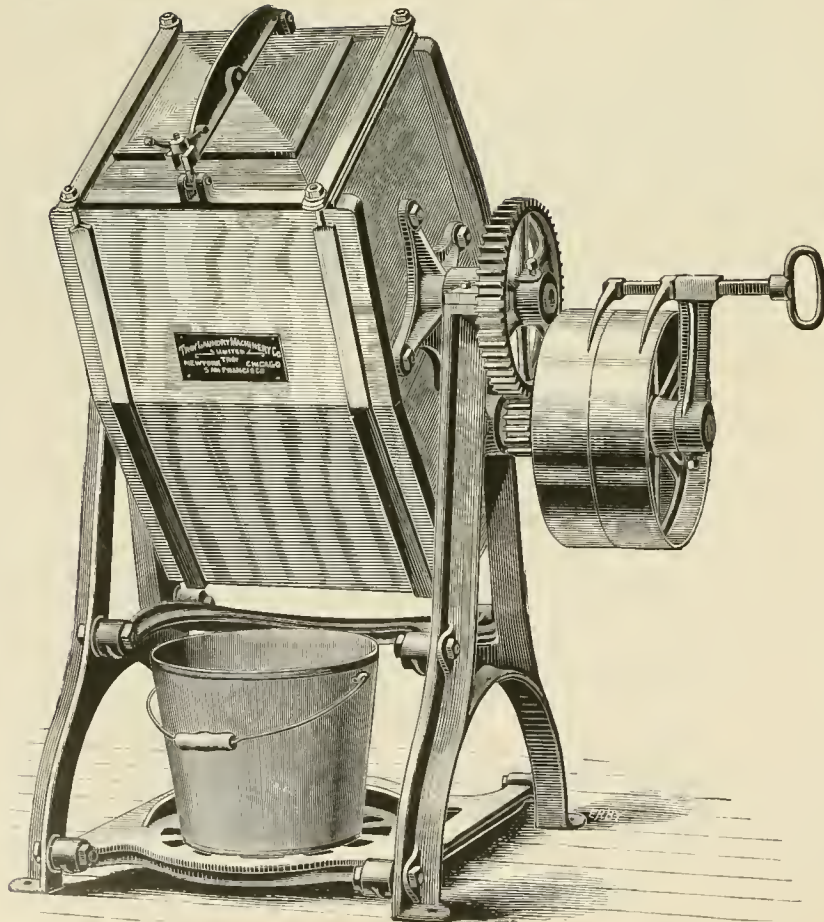
Counter-shaft runs 400 revolutions. Tight and loose pulleys on counter are 8 inches in diameter and 4 inch face. Floor space, 36 x 43 inches. Weight, 1,200 pounds.





## IMPROVED RUBBER ROLL WRINGER.

THE frames of this wringer are made of galvanized iron, with brass bearings for the rubber rolls. The rolls are  $3\frac{1}{2}$  inches in diameter and 18 inches long, made of the best white rubber. The pulleys are 16 inches in diameter and 3 inch face, and should make 40 revolutions per minute. Use a 3 inch belt. The pulley on line shaft should have 6 inch straight face. Weight, 200 pounds.



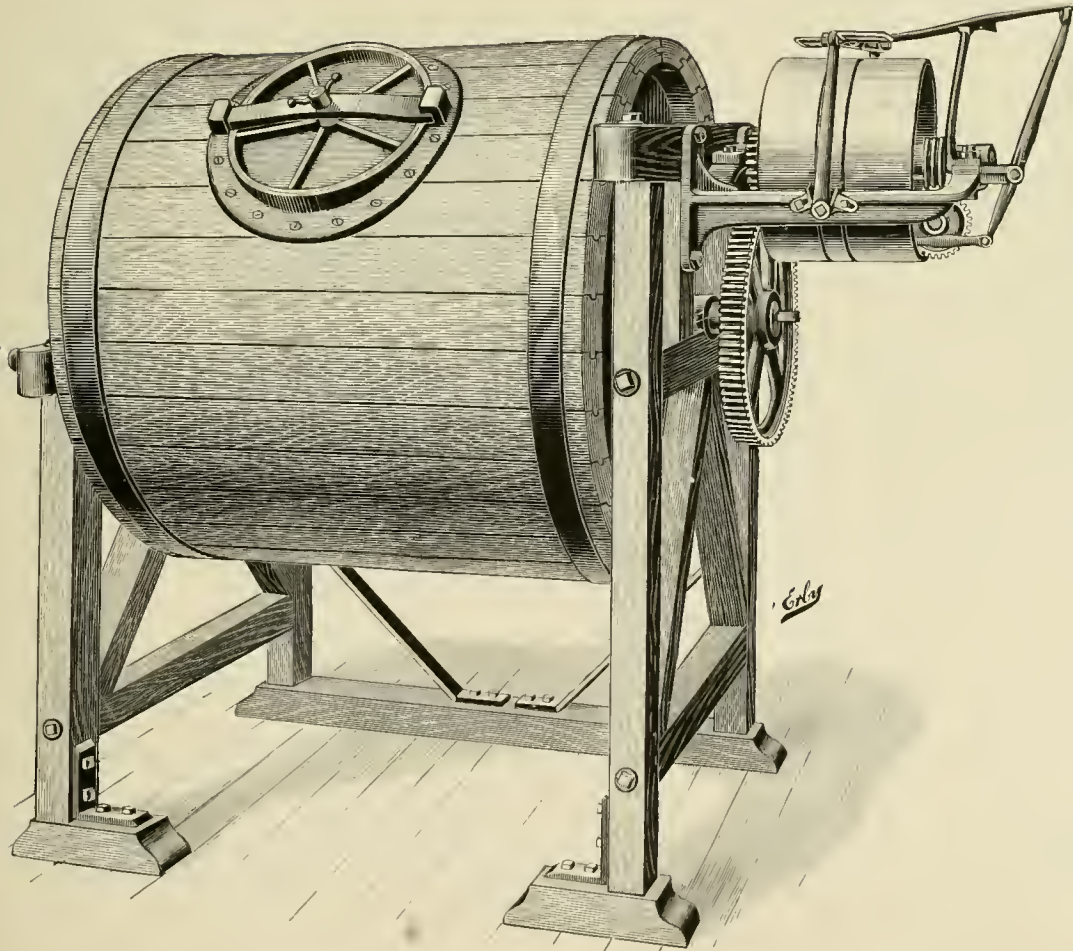
## IMPROVED DIP WHEEL COLLAR AND CUFF STARCHERS.

### NO. 1.

THE pulleys are 12 inches in diameter and 3 inch face, and should make 100 revolutions per minute. Use a 3 inch belt. Pulley on line shaft should have 6 inch straight face. Size of starcher, 19 x 28 inches. Capacity, 40 to 50 dozen collars and cuffs. Floor space, 24 x 39 inches. Weight, 350 pounds.

### NO. 2.

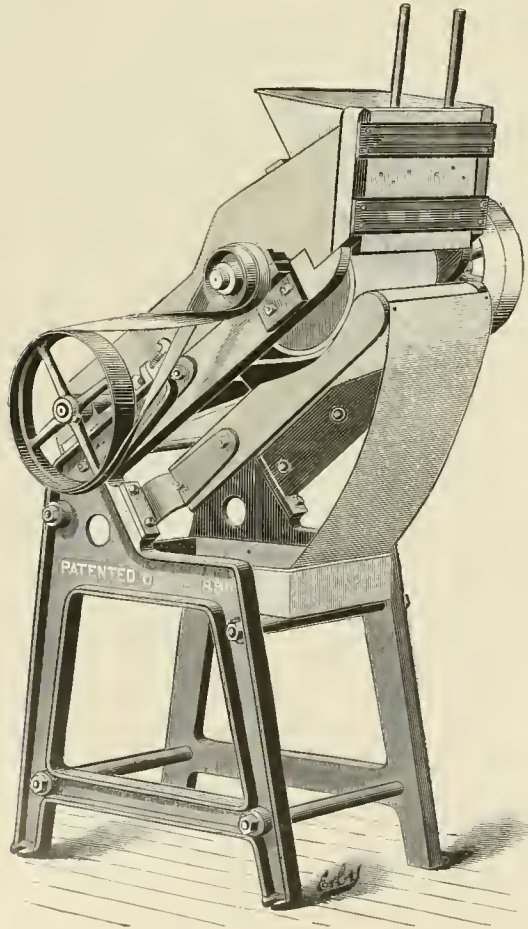
The pulleys are 20 inches in diameter and 3 inch face, and should make 90 revolutions per minute. Use a 3 inch belt. Pulley on line shaft should have 6 inch straight face. Size of starcher, 22 x 36 inches. Capacity, 75 dozen collars and cuffs. Floor space, 26 x 36 inches. Weight, 480 pounds.



**REVERSIBLE  
CYLINDER  
COLLAR AND CUFF  
STARCHER.**

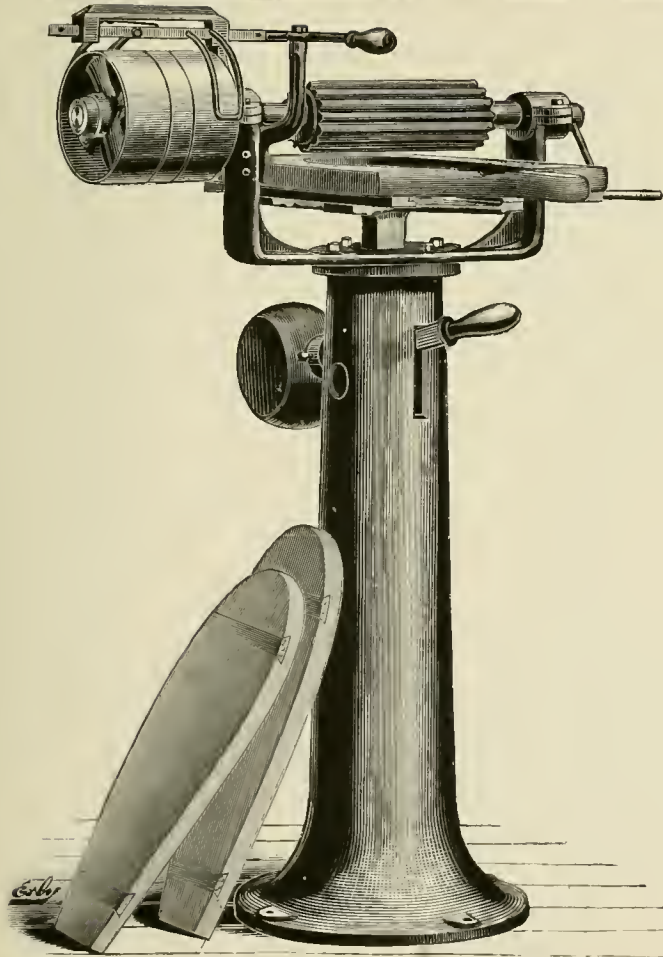
**T**HE pulleys are 12 inches in diameter, and should make 125 revolutions per minute. Use  $1\frac{1}{2}$  inch cross belt on inside pulley, and 2 inch straight belt on outside pulley. The pulley on line shaft should have 9 inch straight face. Cylinder, 31 x 34 inches. Capacity, 150 doz. collars and cuffs. Floor space, 36 x 57 inches. Weight, 750 pounds.





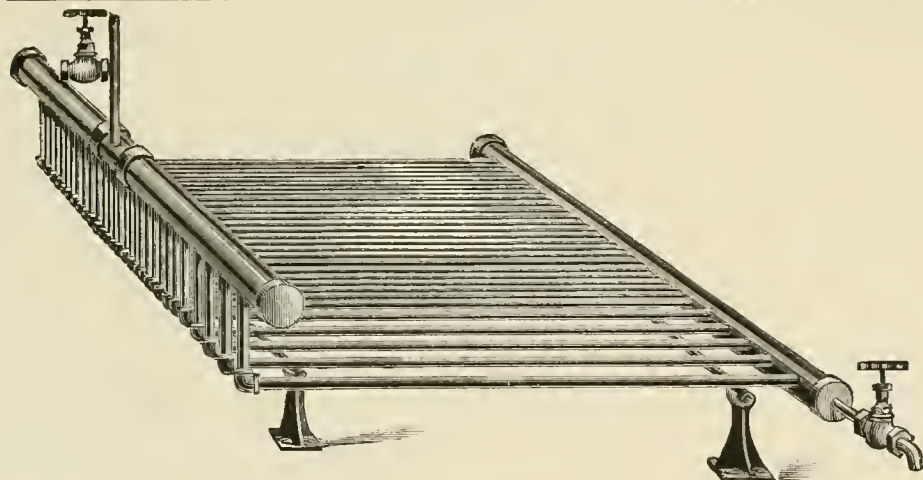
### TAYLOR SHIRT STARCHER.

THE pulleys are 10 inches in diameter, and should make 160 revolutions per minute. Use a 2 inch belt. The pulley on line shaft should have 4 inch straight face. Capacity, 600 shirts per day. Floor space, 24 x 39 inches. Weight, 300 pounds.

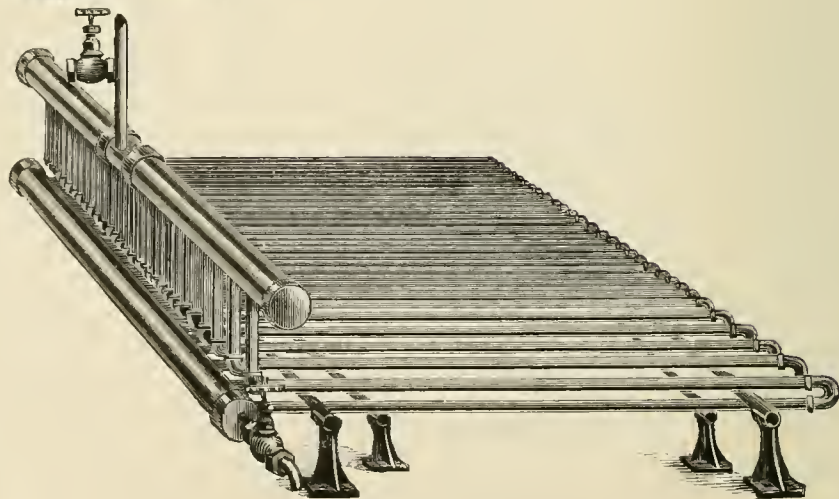


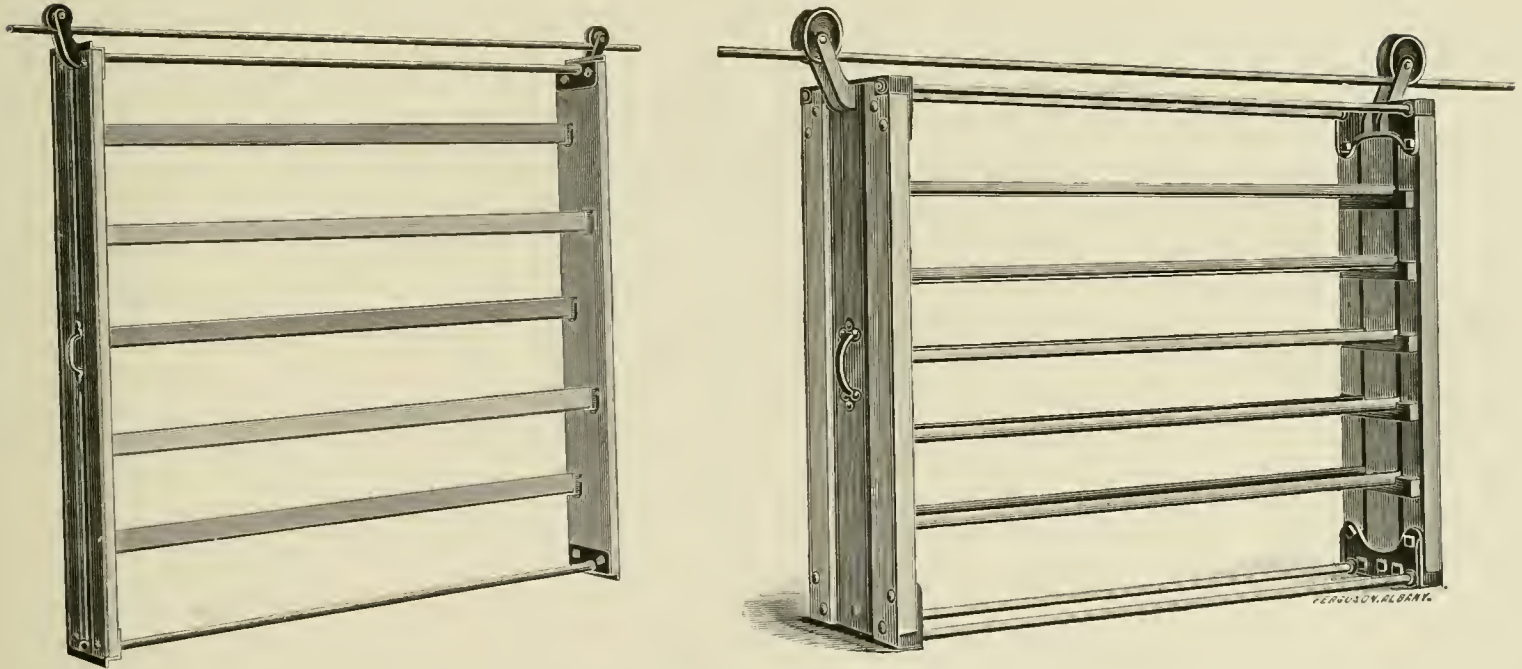
### CHICAGO SHIRT STARCHER.

THE pulleys are 6 inches in diameter, and should make 300 revolutions per minute. Use a 1 inch straight and cross belt. Pulley on line shaft should have 7 inch straight face. Capacity, 1,000 to 1,500 shirts per day. Floor space, 24 x 34 inches. Weight, 300 pounds



DRY ROOM COILS,  
SHOWING SINGLE AND  
DOUBLE COILS.

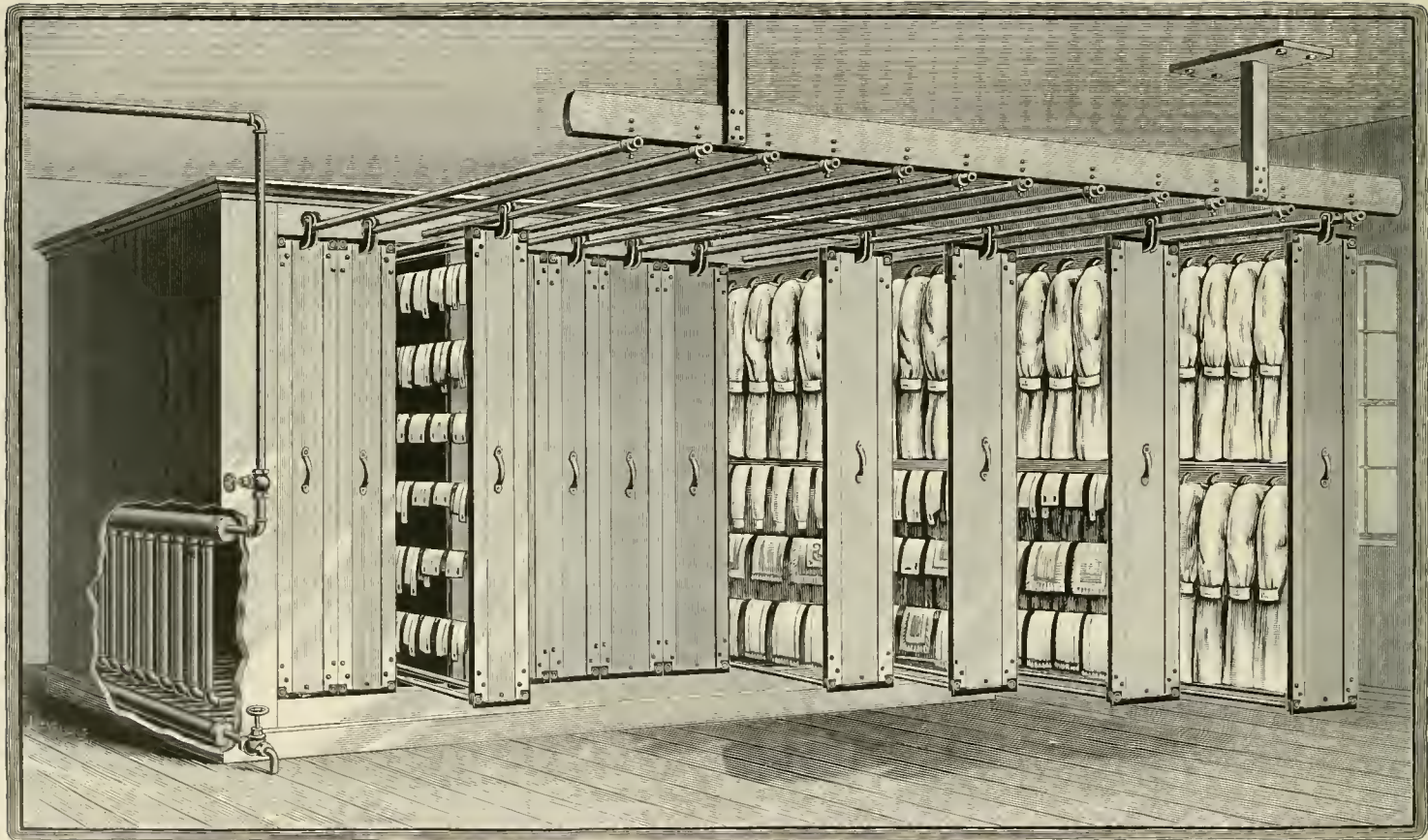




**IMPROVED DRY ROOM RACKS.**

We build these racks 9, 12 and 18 inches wide. The 18 inch are used mostly for drying shirts.



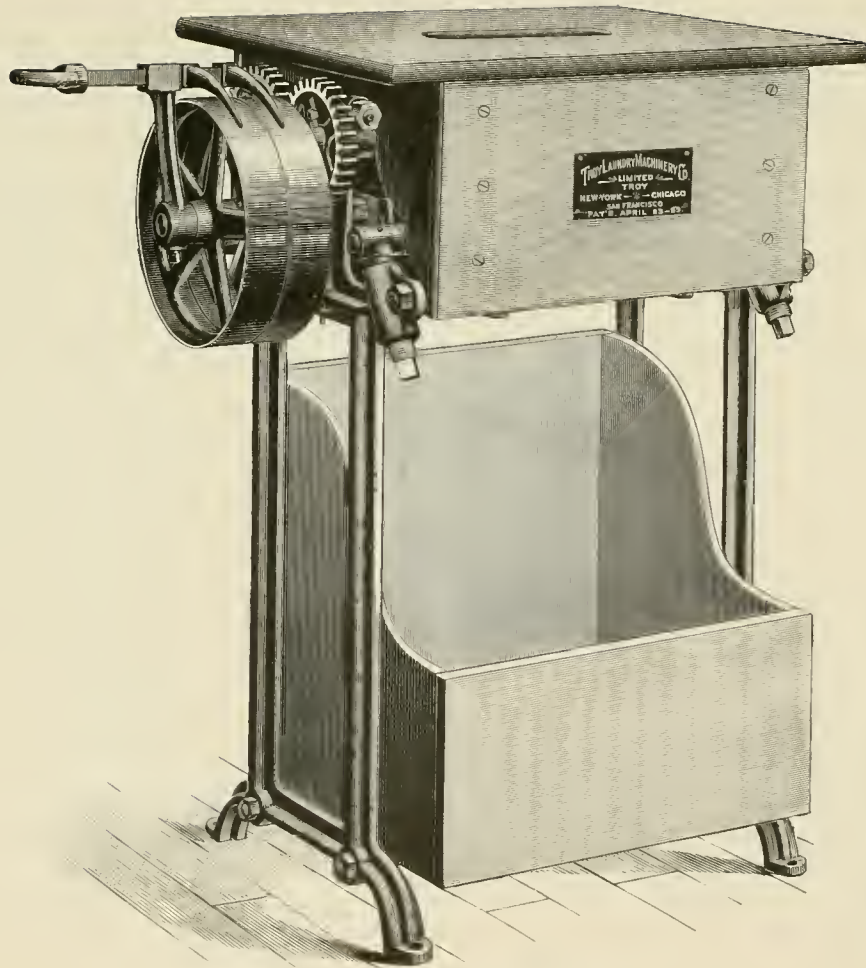




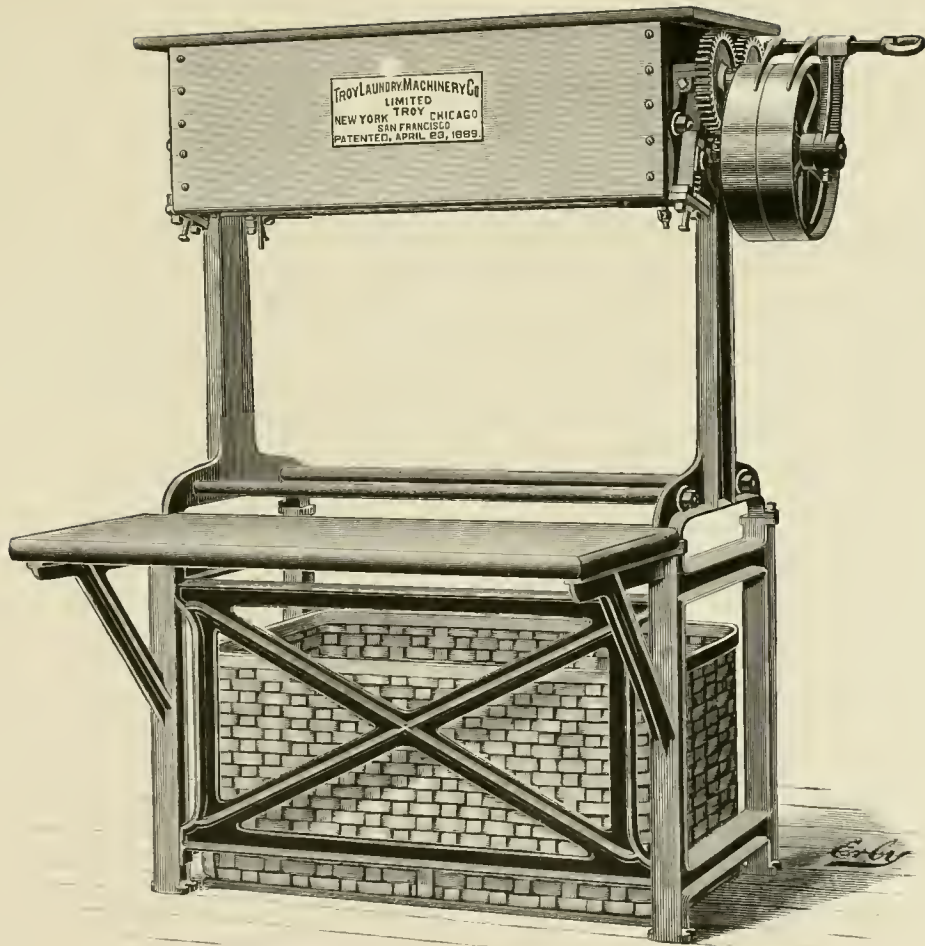
### STEAM DRYING CLOSET.

THE engraving on the opposite page gives a good idea of the most effective Drying Closet known. The illustration shows our patent improved dry room castings and frame. The castings are made the full width of the frame. The frames are put together with  $\frac{3}{4}$  inch pipe, which screws into the castings at each corner, instead of wooden cross pieces and angle irons. The advantages of this construction are: First the ease with which the frame can be put up, not requiring a carpenter; and second, their durability. The continual drawing in and out of the frame racks it, and the screws and nails in the corners work loose. After renailing it a few times the wood becomes splintered and the nails will not hold, when new fronts and backs must be put in. This wear and tear will not occur with these castings, and they will be as firm and solid after years of use, as at first. We can furnish Dry Rooms of any size, complete, with steam coil, top, sides, and all fixtures. The racks are made in 9, 12 and 18 inch widths. The latter are especially adapted for shirt drying, and are provided with a very simple and effective device for suspending the shirts by the yoke, thereby causing them to dry much quicker and more evenly than by the old method.

Where parties prefer to build their own Dry Room, we can furnish them with racks complete, including connecting rods, track rods, etc., same as the cuts shown on page 33. We can furnish also either single or double steam coils like those shown on page 32. The coils, of course, can be made any size desired.



COLLAR AND CUFF DAMPENER.



SHIRT DAMPENER.

**COLLAR AND CUFF DAMPENER, NO. 1.**

THE rubber rolls are 5 inches in diameter, and 10 inches in length. The pulleys are 10 inches in diameter and should make 75 revolutions per minute. Use a 2 inch belt. Pulley on line shaft should have 4 inch straight face. Floor space, 19 x 33 inches. Weight, 300 pounds.

**COLLAR AND CUFF DAMPENER, NO. 2.**

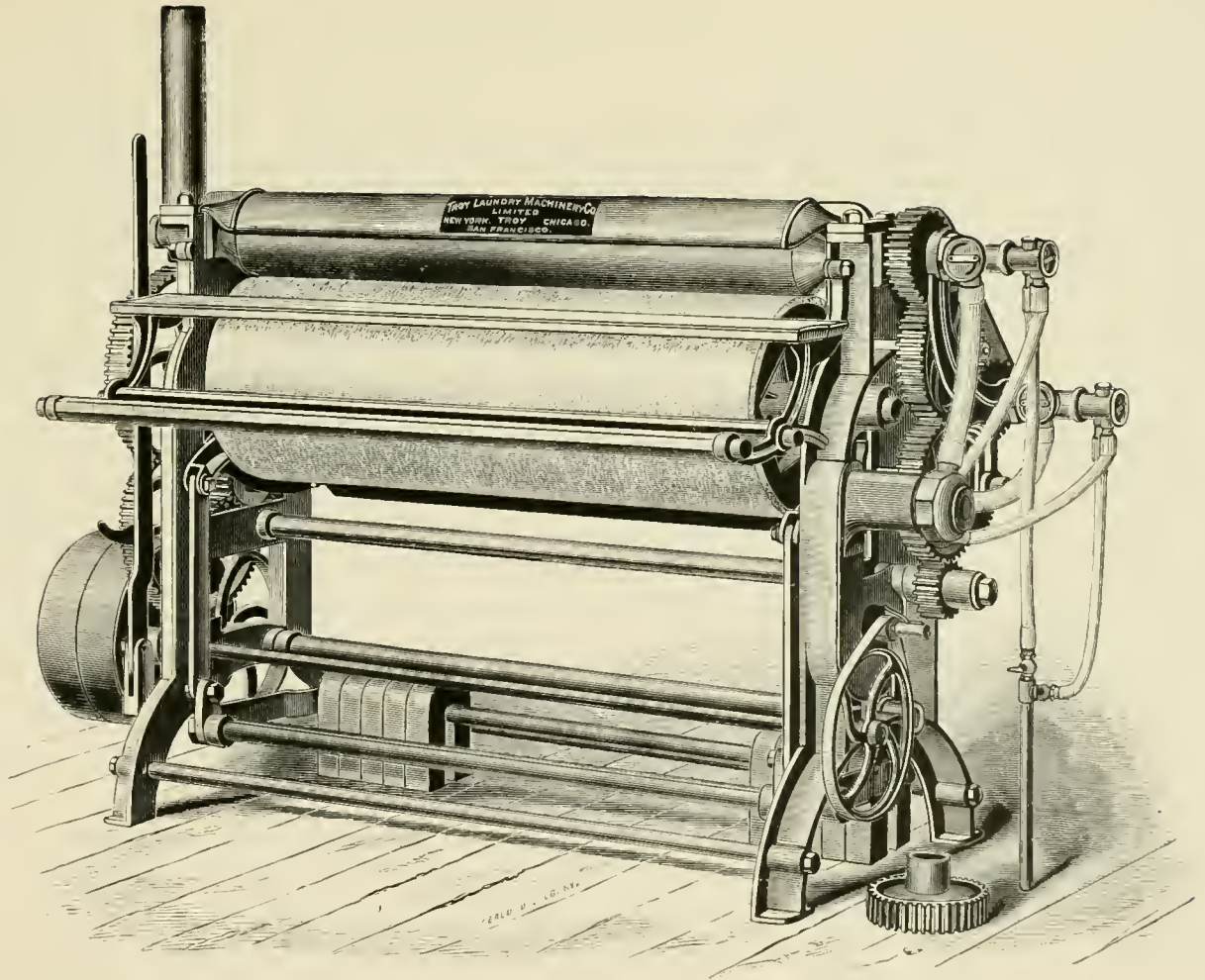
The rubber rolls are 7 inches in diameter, and 15 inches in length. The pulleys are 12 inches in diameter and should make 60 revolutions per minute. Use  $2\frac{1}{2}$  inch belt. Pulley on line shaft should have 4 inch straight face. Floor space 24 x 40 inches. Weight 450 pounds.

**SHIRT DAMPENER, NO. 3.**

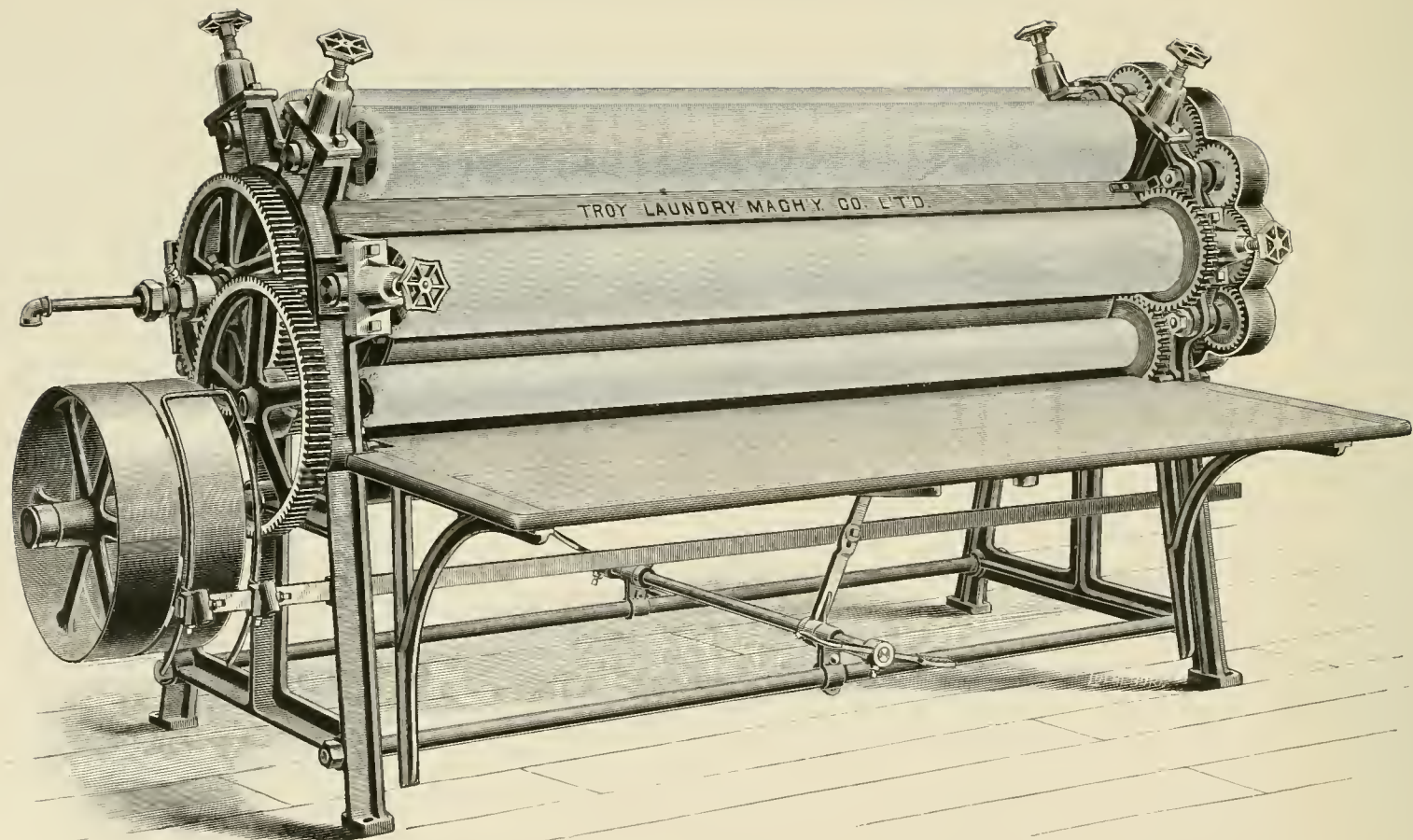
The rubber rolls are 7 inches in diameter, and 30 inches in length. The pulleys are 12 inches in diameter and should make 100 revolutions per minute. Use a  $2\frac{1}{2}$  inch belt. Pulley on line shaft should have 5 inch straight face. Floor space, 44 x 55 inches. Weight, 850 pounds.

## GAS CALENDER.

THE pulleys are 18 inches in diameter and 4 inch face, and should make from 60 to 65 revolutions per minute. The pulley on line shaft should have 8 inch straight face. Floor space, 36 x 90 inches. Weight, 1,850 pounds.







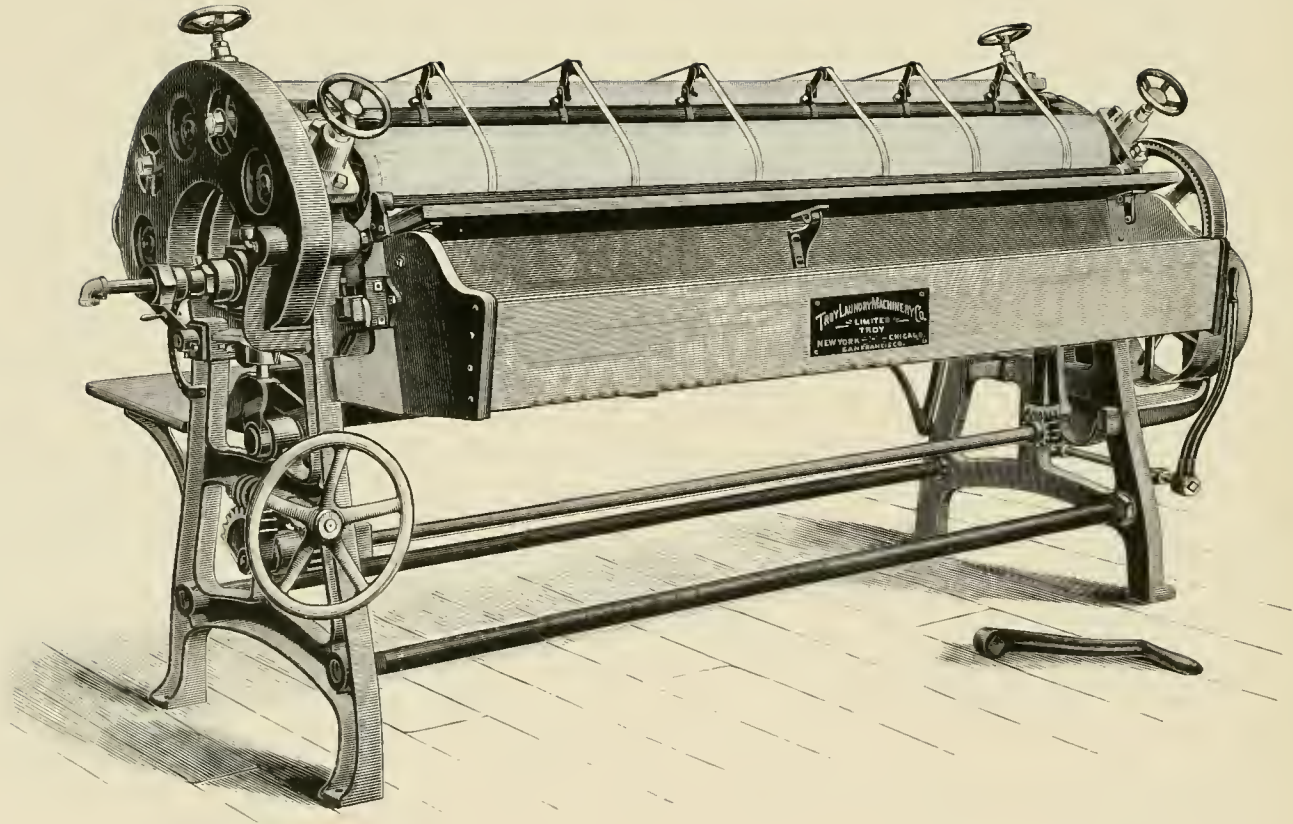
**STEAM MANGLE.****STEAM CYLINDER, 16 INCHES IN DIAMETER.**

**T**HE pulleys are 17 inches in diameter, and should make 80 revolutions per minute. Use a 4 inch belt. Pulley on line shaft, 8 inch straight face. Connect the exhaust at pulley, and steam at the opposite end with  $\frac{1}{2}$  inch pipe.

Floor space of 48 inch, 52 x 86 inches. Weight, 2,700 pounds.

Floor space of 64 inch, 52 x 102 inches. Weight, 2,900 pounds.

Floor space of 75 inch, 52 x 113 inches. Weight, 3,100 pounds.



**IMPROVED STEAM MANGLE.****STEAM CYLINDER, 16 INCHES IN DIAMETER.**

**W**E build this machine in three sizes, 68, 78 and 84 inches. The 68 inch size has three 6 inch auxiliary rolls, and the 78 and 84 inch sizes have three 8 inch auxiliary rolls. With this exception the Mangle is the same as the large size shown on opposite page.

The pulleys are 17 inches in diameter, and should make 80 revolutions per minute. Use a 4 inch belt. Pulley on line shaft, 8 inch straight face.

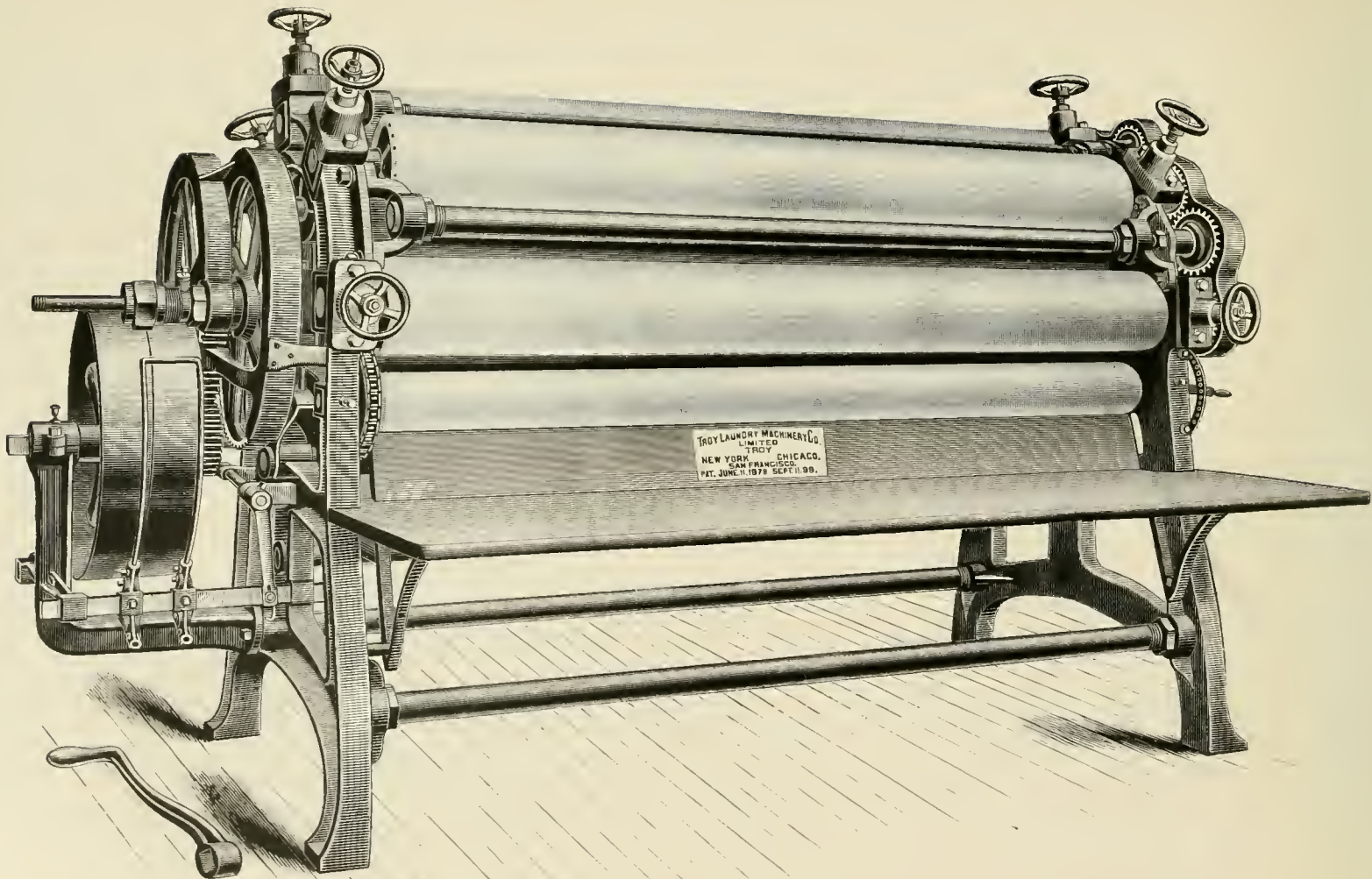
Connect the exhaust at pulley, and steam at opposite end with  $3\frac{1}{4}$  inch pipe, using swing joints.

Floor space of 68 inch, 60 x 112 inches. Weight, 3,500 pounds.

Floor space of 78 inch, 60 x 122 inches. Weight, 3,800 pounds.

Floor space of 84 inch, 60 x 128 inches. Weight, 4,100 pounds.





TROY LAUNDRY MACHINERY CO.  
LIMITED  
TROY, NEW YORK CHICAGO,  
SAN FRANCISCO.  
PAT. JUNE 11, 1878 SEPT 11, 90.



**STEAM MANGLE.****STEAM CYLINDER 24, INCHES IN DIAMETER.**

**W**E build this machine in two sizes, 90 and 100 inches. The steam heated cylinders are 24 inches in diameter, and the heads are put in with  $\frac{3}{4}$  inch stud bolts packed with copper gaskets, and tested 300 pounds hydraulic pressure. The 90 inch size has a heating surface of 6,786 square inches, and the 100 inch, 7,539 square inches.

The Mangle has four auxiliary rolls, 8 inches in diameter, and are covered with genuine wool covering (which absorbs the moisture, and protects the hems of the goods). The pressure is so arranged that it can be easily adjusted to accommodate the different thicknesses of the goods. The shafts of the auxiliary rolls are made of steel, and the boxes of gun metal. The doffer roll is arranged to take the goods from the heated cylinder and carry them either on a receiving table, or on an endless apron. The tapes, or cords, are used to prevent the goods from winding around the auxiliary rolls.

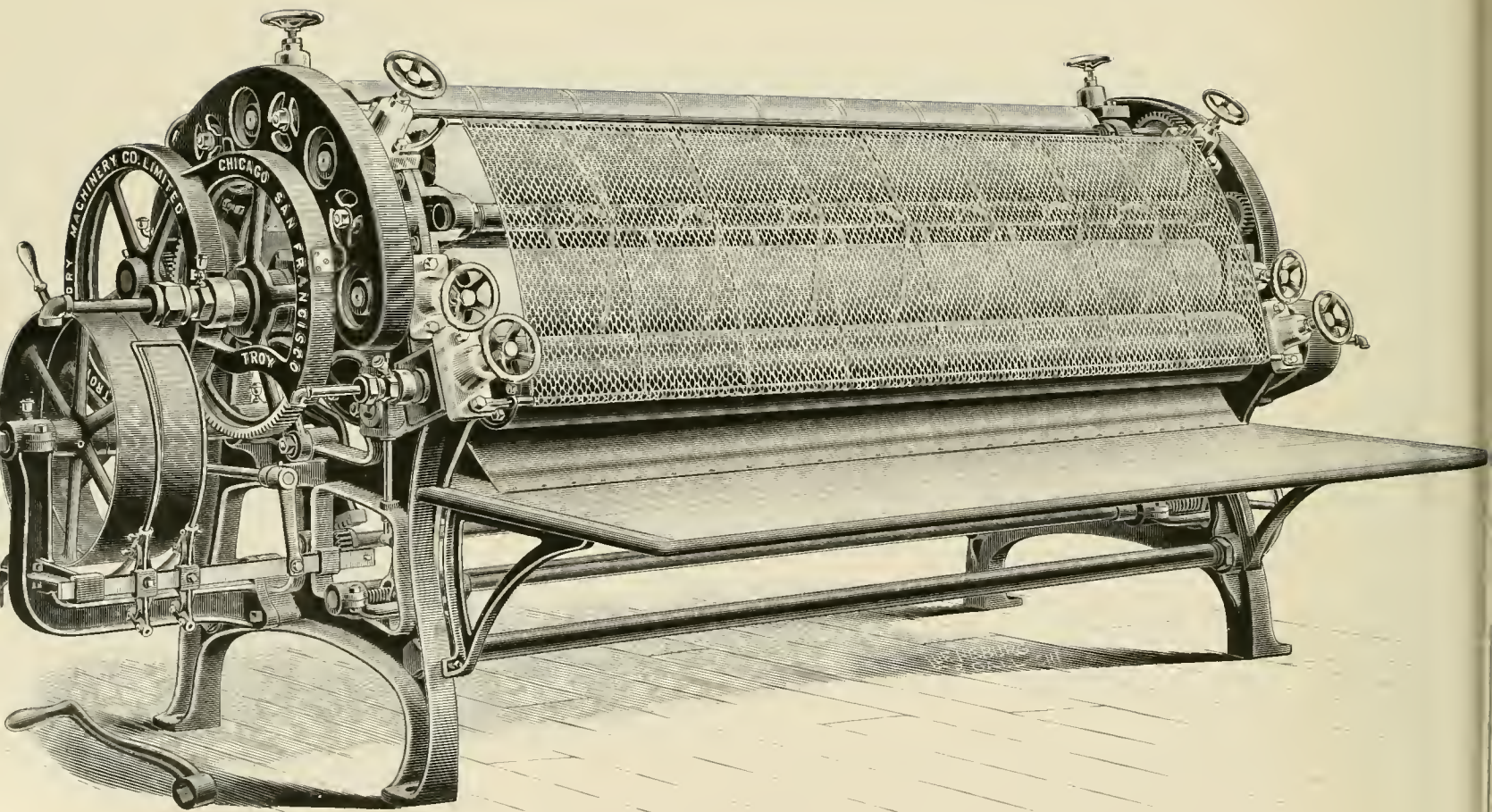
The Mangle is provided with belt shifters, and the shields and protecting guards make it perfectly safe. Goods taken direct from the extractor can be dried and ironed on this machine by passing them through once, provided the steam connections are correctly made, and there are about 331 degrees of heat in the cylinder.

Connect the exhaust at the pulley end and the steam at the opposite end with 1 inch pipe, using swing joints.

The pulleys are 23 inches in diameter, and should make 45 revolutions per minute. Use a 4 inch belt. Pulley on line shaft should have 8 inch straight face.

Floor space of 90 inch, 62 x 137 inches. Weight, 6,500 pounds.

Floor space of 100 inch, 62 x 147 inches. Weight, 7,000 pounds.



### DUPLEX MANGLE.

OUR Duplex Mangle has two heated cylinders (24 x 100 inches and 8 x 100 inches), and is arranged to iron the goods on both sides, giving them a soft satin finish, which is so very desirable for table linen especially, and in this respect it has a decided advantage over all other mangles, and from the results we have obtained, we have no hesitation whatever in guaranteeing this machine to be the best mangle that was ever built for capacity and soft satin finished work. The doffer roll is arranged to take the goods from the heated cylinder and carry them either on a receiving table, or on an endless apron. The tapes, or cords, are used to prevent the goods from winding around the auxiliary rolls.

It takes the goods direct from the extractor, and by passing them through the machine once, not only dries, but irons them, giving each side of the goods an equally soft finish.

This mangle is to plain work what our No. 5 Collar and Cuff Ironer is to collars and cuffs, and where parties have a sufficient amount of work, they will find it to be the best and most economical mangle made.

The five auxiliary rolls are covered with genuine wool covering, (which absorbs the moisture and protects the hems of the goods). The pressure is arranged so that it can be easily adjusted to the different thicknesses of the goods. The shafts of the auxiliary rolls are made of steel, and the boxes of gun metal.

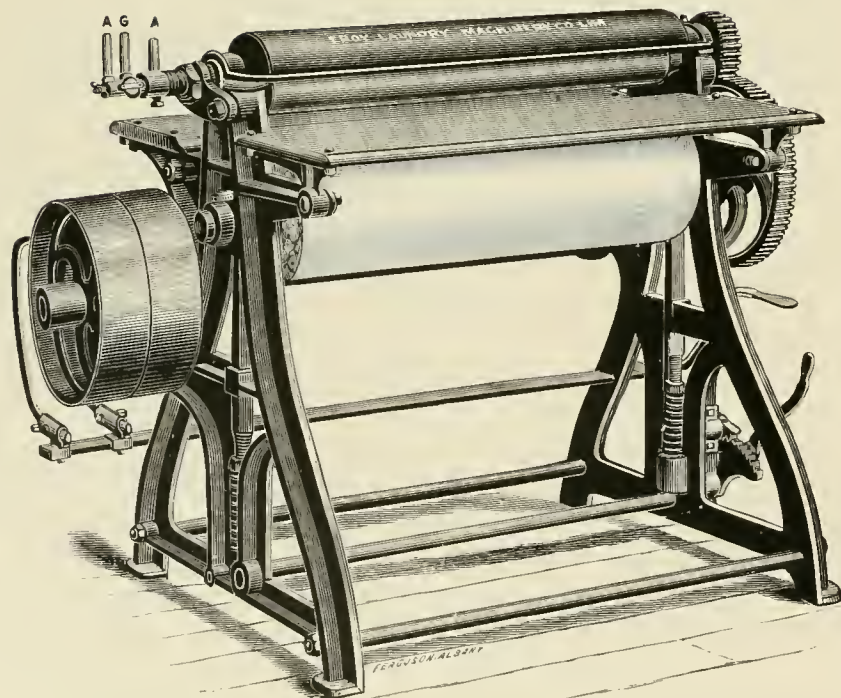
No expense whatever has been spared in its general construction, and if the steam connections are correctly made, and there are 331 degrees of heat in the cylinder, it will give the very best of satisfaction in every respect.

The wool covering on these machines is made especially for us, and cannot be furnished by any other supply dealers.

The pulleys are 23 inches in diameter, and should make 45 revolutions per minute. Use a 4 inch belt. Pulley on line shaft should have 8 inch straight face. The machine can be arranged for two speeds if desired.

Floor space, 12 x 14 feet. Weight, 9,000 pounds.





## GAS MANGLES.

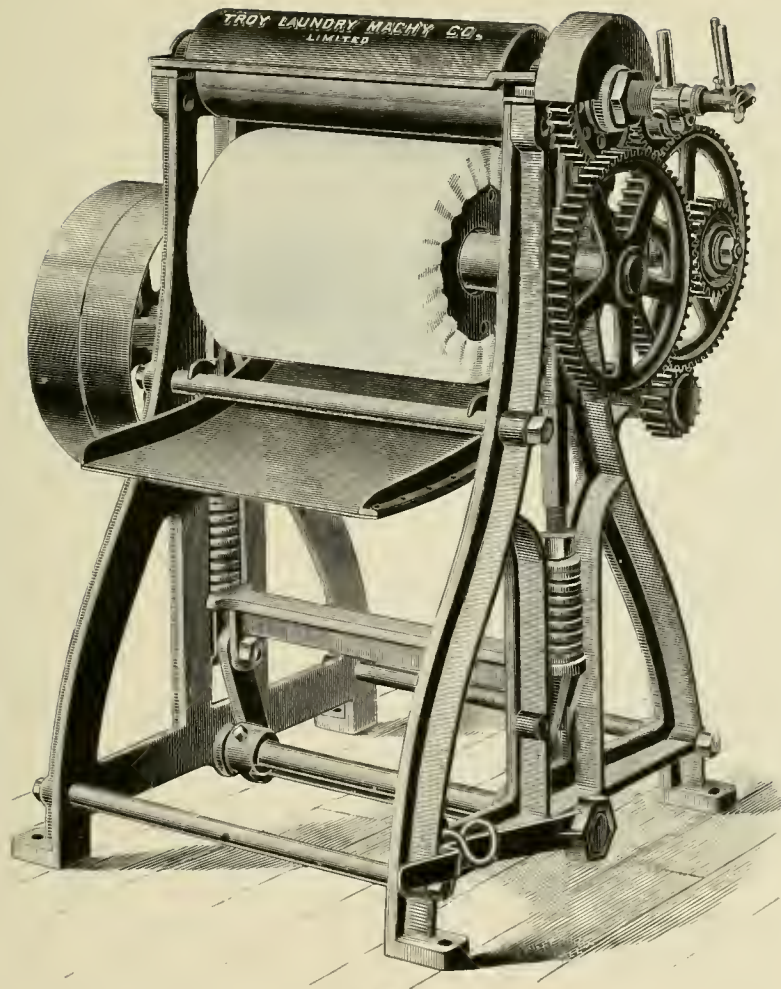
### NO. 1.

THE pulleys are 16 inches in diameter, and should make 90 revolutions per minute. Use a 3 inch belt. Pulley on line shaft should have 6 inch straight face. The heated roll and drum are 33 inches in length. Floor space, 40 x 50 inches. Weight, 700 pounds.

### NO. 2.

The pulleys are 14 inches in diameter, and should make 90 revolutions per minute. Use a 3 inch belt. Pulley on line shaft should have 6 inch straight face. The heated roll and drum are 22 inches in length. Floor space, 32 x 48 inches. Weight, 600 pounds.





### NO. 7 COLLAR AND CUFF IRONER.

THE pulleys are 14 inches in diameter, and should make 90 revolutions per minute. Use a 3 inch belt. Pulley on line shaft should have 6 inch straight face. Capacity, 200 dozen collars and cuffs per day. Floor space, 24 x 33 inches. Weight, 450 pounds.



**NO. 5 COLLAR AND CUFF IRONER.**

**IT IS THE KING OF ALL COLLAR AND CUFF IRONERS AND HAS A CAPACITY OF 14,000 PER DAY.**

**T**HIS ironer is the most perfect machine of its kind that was ever devised, and the finish it produces on collars and cuffs has made the city of Troy, New York, famous for fine laundry work.

While it gives the goods a beautiful finish, it is not as severe on them as other machines, and with proper care and attention the machine itself will last many years.

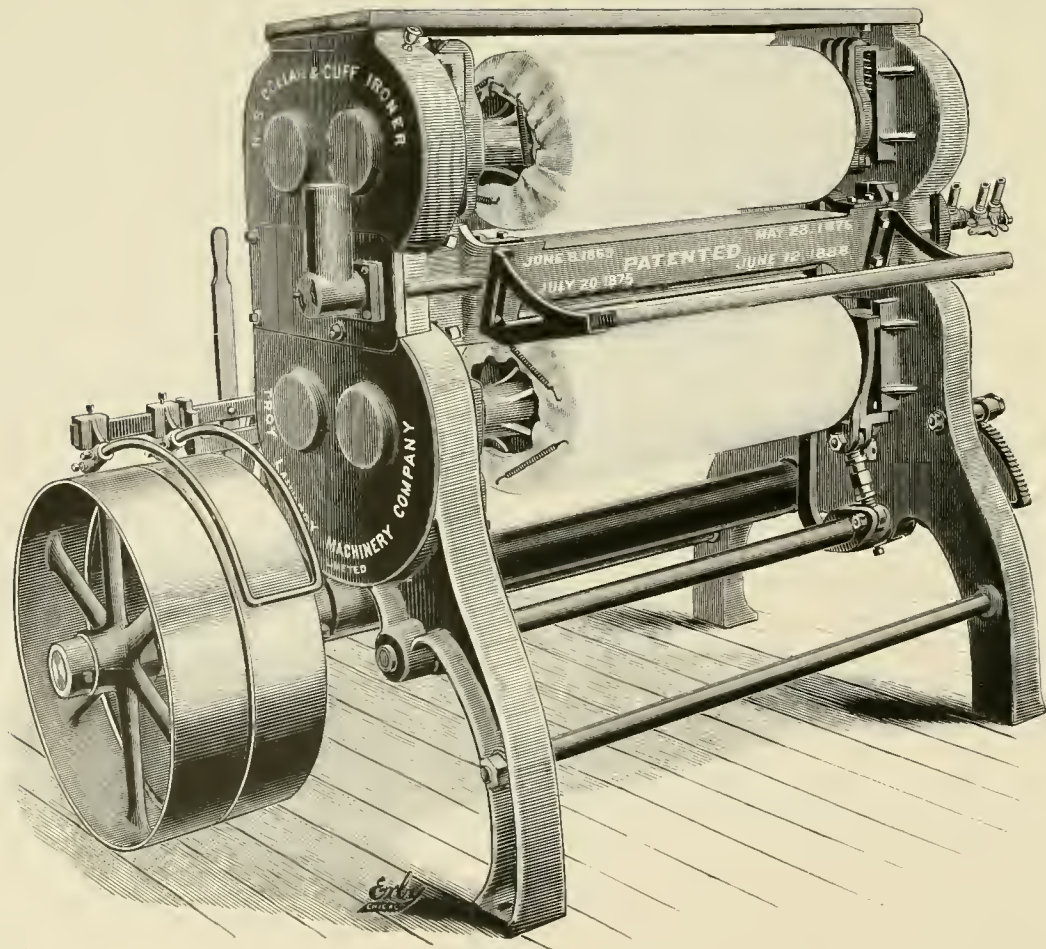
One of the first machines built (some sixteen years ago) is in daily use, and is doing as perfect work as ever.

Nearly all of the collars and cuffs made by the leading manufacturers in the United States are ironed on this machine.

It is arranged for either medium gloss or domestic finish, as desired.

We are now building these machines with three heated rolls, and are using cut gears.

The pulleys are 24 inches in diameter, and should make 36 revolutions per minute. Use a 4 inch belt. The pulley on line shaft should have 8 inch straight face. Floor space, 66 x 66 inches. Weight, 2,100 pounds.



W. & CO. & CUFF IRONER

J. & B. & CO. MACHINERY COMPANY LIMITED

JUNE 2, 1863 PATENTED MAY 28, 1879 JUNE 12, 1888

Globe



**NO. 8 COLLAR AND CUFF IRONER.**

**O**UR No. 8 Collar and Cuff Ironer was designed especially for high gloss work, and, with the exception of our No. 5 Ironer, we have no hesitation in guaranteeing it to be superior to any other collar and cuff ironer.

We are building this machine with cut gears, which are covered as well as the steel shafts, and the nickel-plated guards make it as safe as possible for the operator.

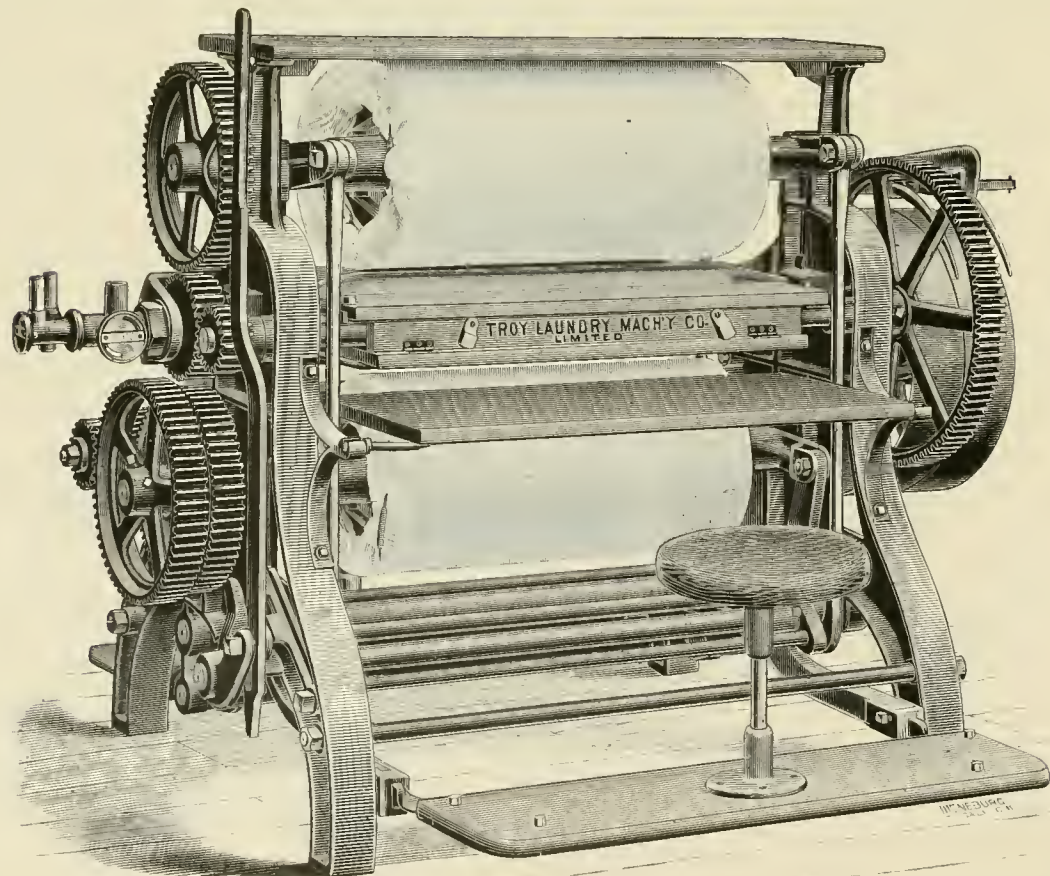
The graphite bearings for the heated roll do not require oil; consequently there is no danger of oil soiling the work.

Pressure is obtained by springs instead of weights, and can be adjusted by the notched quadrant to any pressure desired.

The drums are covered with seamless all wool felt jackets, making the bed soft and pliable, which does not injure the edges of the collars and cuffs, or cause them to split, but will give the edges of the collars and cuffs the same finish as is produced on the other parts of the goods.

We have spared no expense in the general construction of this ironer, even to the smallest details.

The pulleys are 20 inches in diameter, and should make 60 revolutions per minute. Use a 4 inch belt. Pulley on line shaft should have 8 inch straight face. Capacity, 7,000 collars and cuffs per day. Floor space, 33 x 64 inches. Weight, 1,650 pounds.



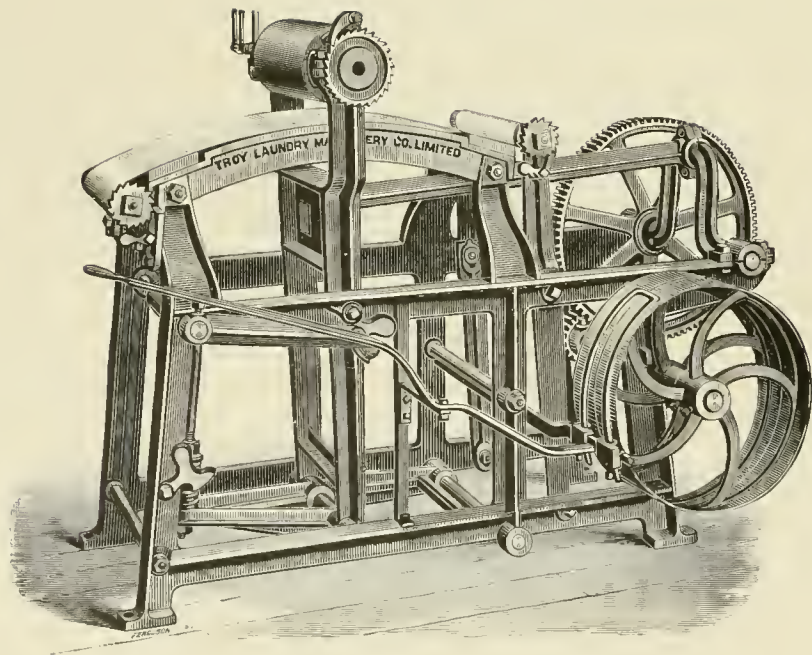
**NO. 6 COLLAR AND CUFF IRONER.**

**O**UR No. 6 Collar and Cuff Ironer is adapted more especially for medium gloss or domestic finish.

Pressure is obtained by weights instead of springs.

The drums are covered with the same material used for covering the drums of our No. 5 and No. 8 Collar and Cuff Ironers, and it has about the same capacity as our No. 8.

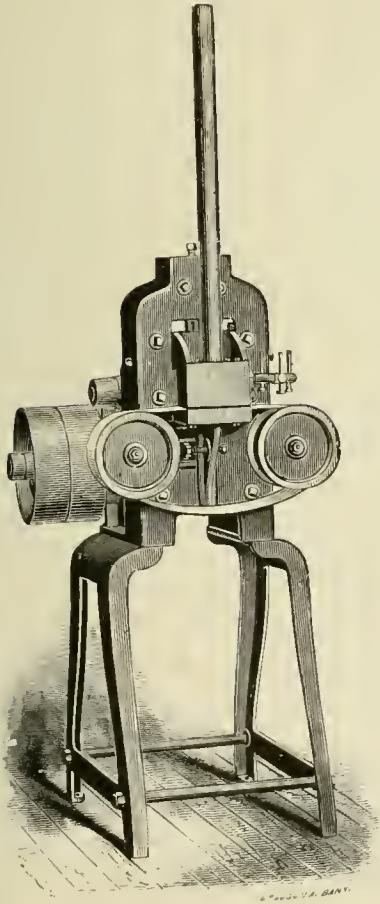
The pulleys are 20 inches in diameter, and should make 90 revolutions per minute. Pulley on line shaft should have 8 inch straight face. Floor space, 72 x 62 inches. Weight, 1,450 pounds.



### RECIPROCATING COLLAR AND CUFF IRONER.

THIS machine gives either high or medium gloss. The pulleys are 17 inches in diameter, and should make 95 revolutions per minute. Use a 3 inch belt. Pulley on line shaft should have a 6 inch straight face. Capacity, 250 dozen collars and cuffs per day. Floor space, 30 x 60 inches. Weight, 700 pounds.

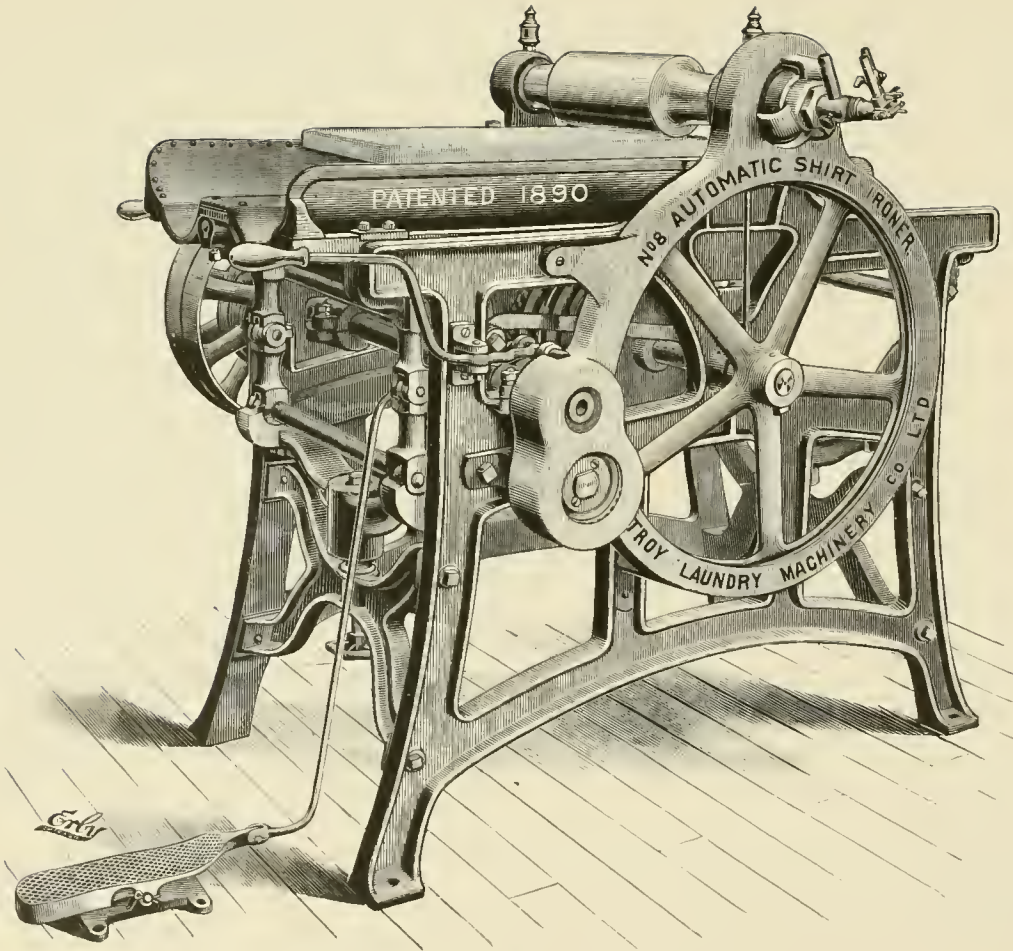




## PRESS MACHINE

FOR FINISHING THE INSIDE POINTS OF STANDING COLLARS.

THE pulleys are 10 inches in diameter, and should make 120 revolutions per minute. Pulley on line shaft should have 6 inch straight face. Capacity, 400 dozen per day. Floor space, 24 x 27 inches. Weight, 400 pounds.



**NO. 8 AUTOMATIC SHIRT IRONER.**

**O**UR No. 8 Automatic Shirt Ironer will iron the full length of the bosom automatically, or, if desired, the operator can, by using the foot treadle, reverse it at any point instantly. As it has a friction movement it is not necessary to slide the belt from one pulley to the other; consequently it can be reversed much easier than those machines that are reversed by sliding the belt on and off a tight pulley.

This machine is arranged to iron one way or both, and the bed can be dropped from the hot roll, at any point, instantly.

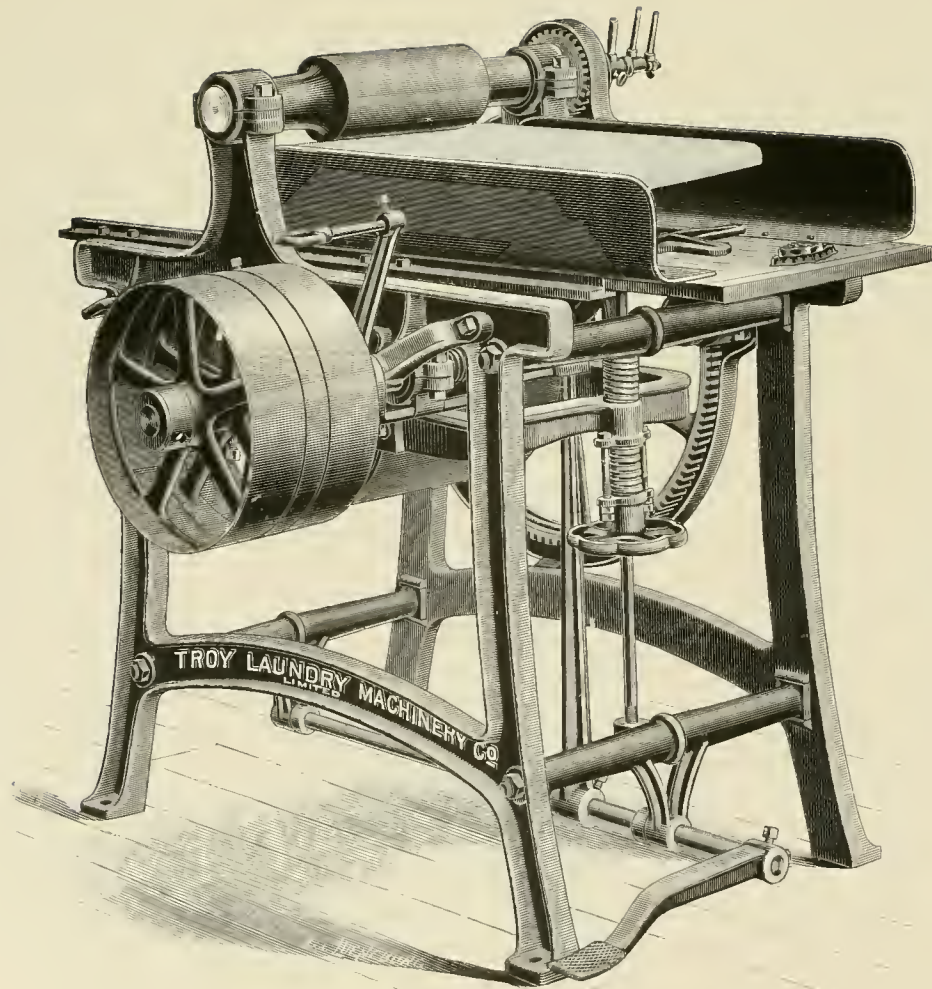
The bosom boards furnished with the machine are interchangeable; consequently an operator can have a number of boards, which facilitates the ironing of the different kinds and styles of shirts.

As a counter shaft is furnished with each machine, it can be belted from any angle and stopped when not in use without throwing off the belts.

It gives an exceedingly fine finish, and an experienced operator can iron very easily 80 bosoms an hour, as it is a very easy machine to operate.

The pulleys are 16 inches in diameter, and should make 220 revolutions per minute. Use a 2 inch straight and cross belt. Floor space, 46 x 54 inches. Weight, 1,500 pounds.

Speed the counter shaft 352 revolutions per minute. The tight and loose pulleys are 8 inches in diameter and 3 inch face. Pulley to drive machine is 10 inches in diameter and 6 inch straight face. Pulley on line shaft to drive counter should have 6 inch straight face.

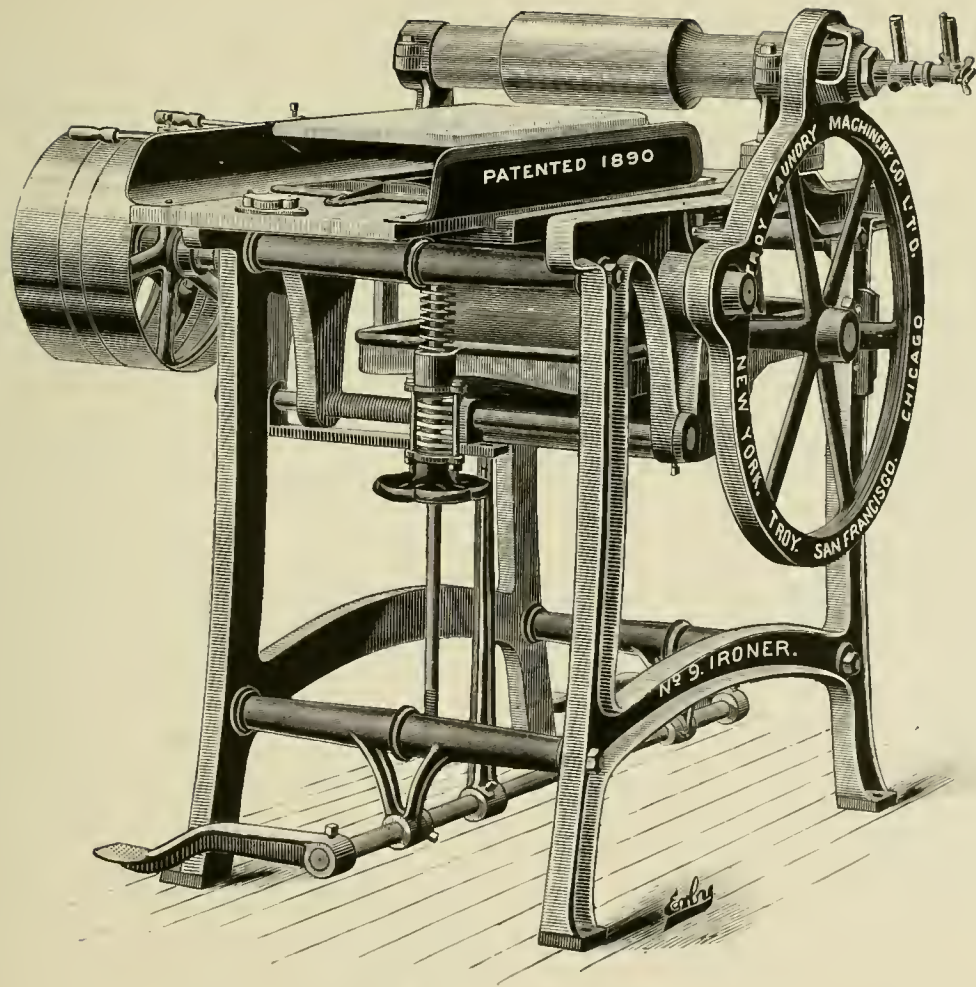


## NO. 10 SHIRT IRONER.

OUR No. 10 Shirt Ironer is similar in principle to our No. 9 Combined Ironer, but is built especially for ironing shirts.

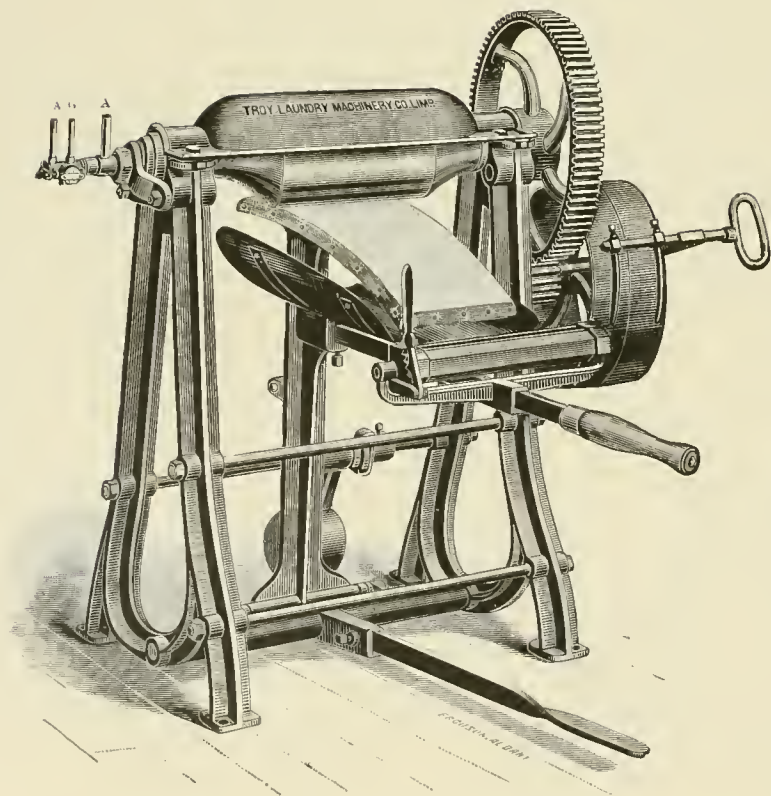
The pulleys are 12 inches in diameter, and should make 160 revolutions per minute. Use  $1\frac{1}{4}$  inch straight and cross belt. Pulley on line shaft should have 8 inch straight face. Capacity, 500 shirts per day. Floor space, 40 x 45 inches. Weight, 750 pounds.





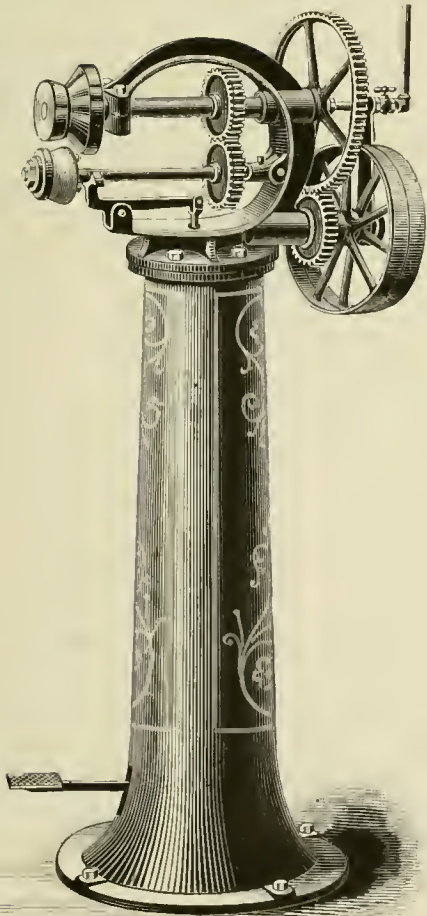
NO. 9  
COMBINED COLLAR, CUFF  
AND SHIRT IRONER.

THIS machine has cut gears and steel shafts, also a new device for adjusting the pressure. The pulleys are 12 inches in diameter, and should make 160 revolutions per minute. Use a  $1\frac{1}{4}$  inch straight and cross belt. Pulley on line shaft should have 8 inch straight face. Capacity, 500 shirts, or 2,500 collars and cuffs per day. Floor space, 40 x 45 inches. Weight, 800 pounds.



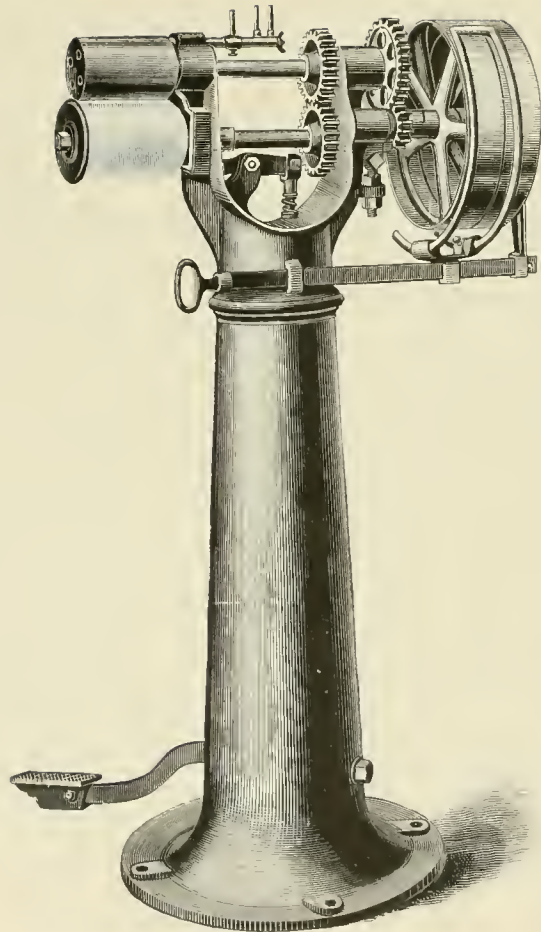
### NO. 2 SHIRT IRONER.

THE pulleys are 14 inches in diameter, and should make 135 revolutions per minute. Use a 3 inch belt. Pulley on line shaft should have 6 inch straight face. Capacity, 600 to 800 bosoms per day. Floor space, 39 x 45 inches. Weight, 550 pounds.



### MINNEAPOLIS NECK BAND IRONER.

THE pulleys are 12 inches in diameter, and should make 29 revolutions per minute. Pulley on line shaft should have 4 inch straight face. Floor space, 16 x 43 inches. Weight, 300 pounds.



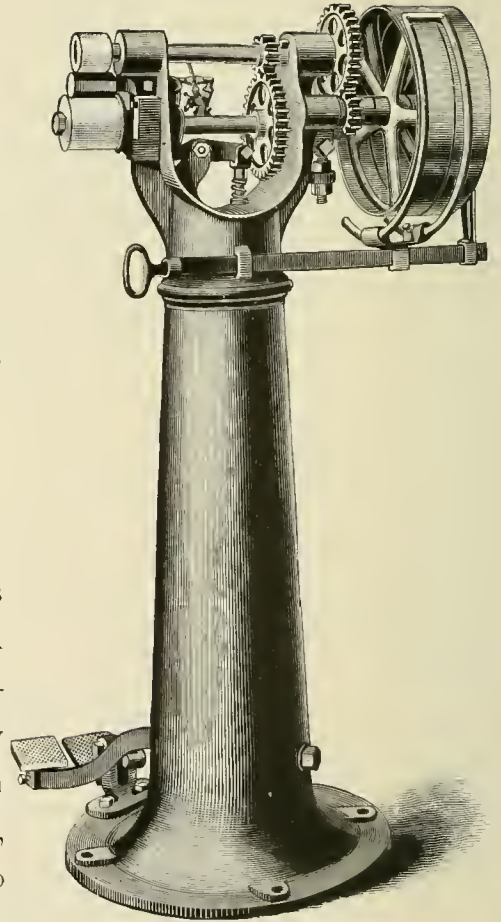
**NO. 1 BAND IRONER.**

**NO. 1 BAND IRONER.**

**T**HE pulleys are 12 inches in diameter, and should make 60 revolutions per minute. Use a 2 inch belt. Pulley on line shaft should have 4 inch straight face. Floor space, 20 x 30 inches. Weight, 300 pounds.

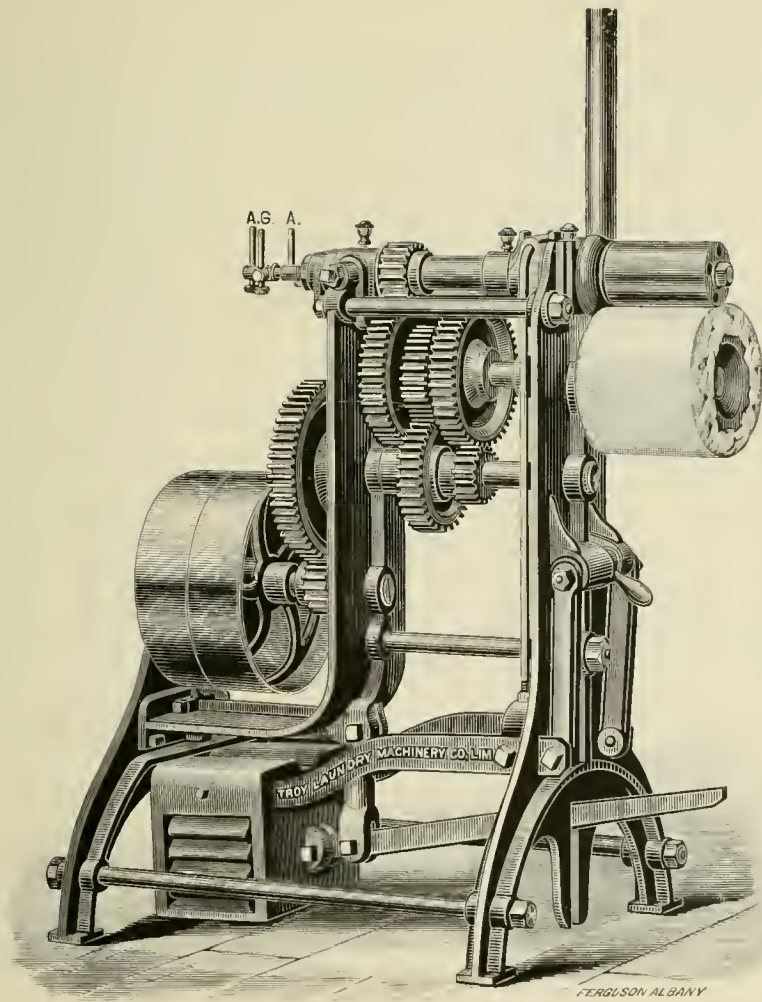
**NO. 2 INSIDE AND OUTSIDE BAND IRONER.**

**T**HE pulleys are 12 inches in diameter, and should make 125 revolutions per minute. Use a 2 inch belt. Pulley on line shaft should have 4 inch straight face. Floor space, 20 x 30 inches. Weight, 300 pounds.



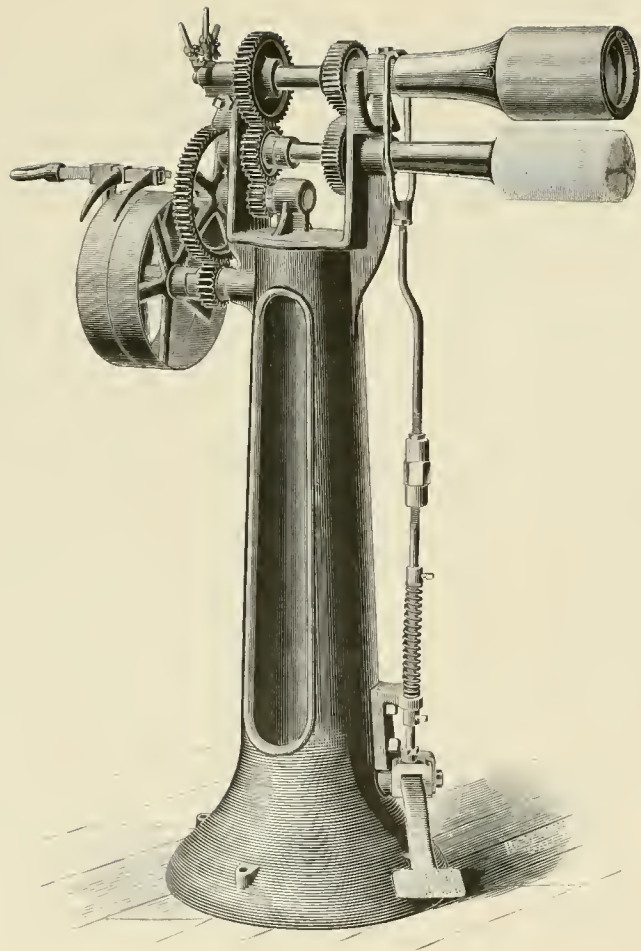
**NO. 2 BAND IRONER.**





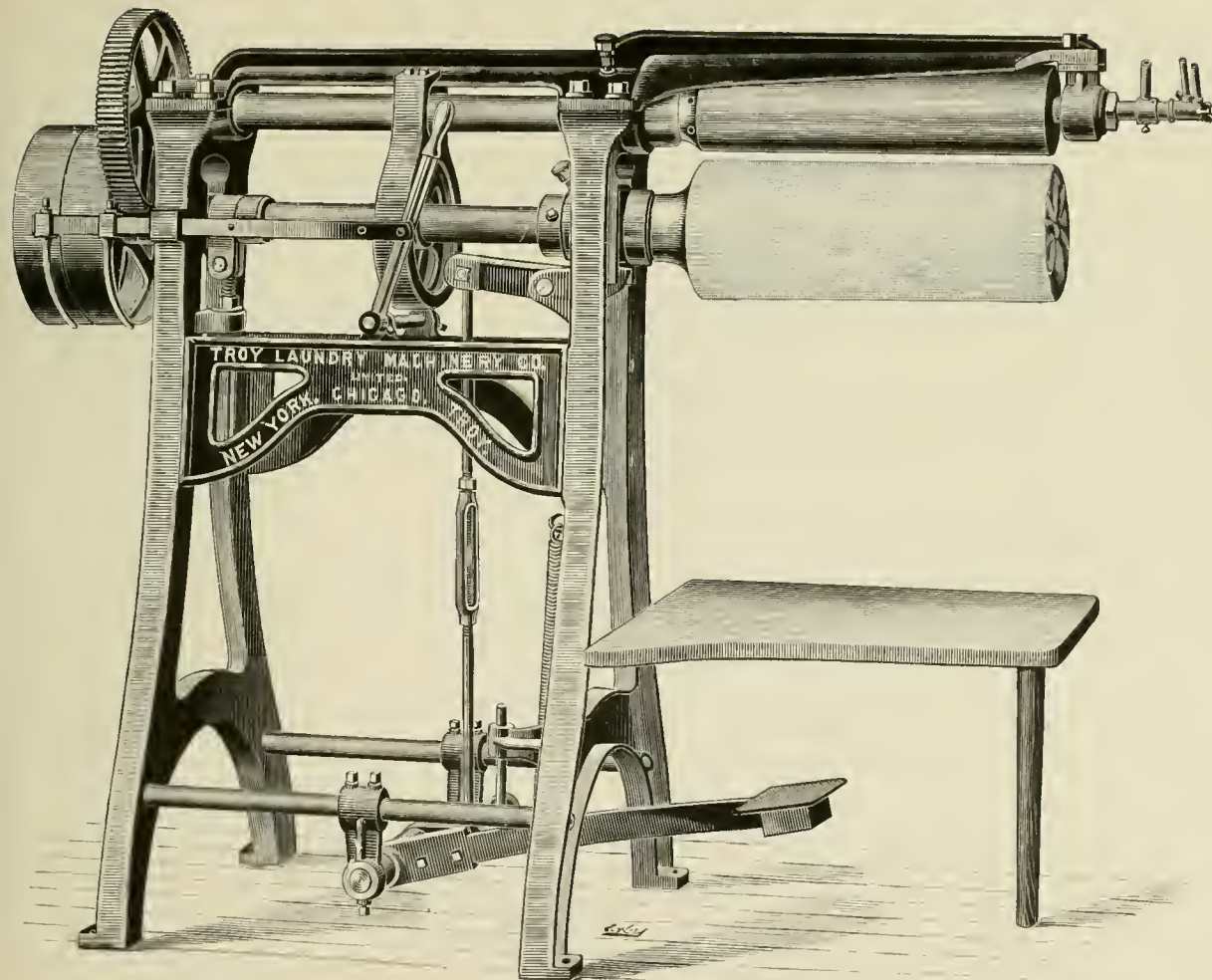
### NO. 3 BAND IRONER.

THIS machine will iron perfectly collars, cuffs, wrist bands of shirts, inside points of standing collars and ladies' cape collars, and an experienced operator can iron complete from eighty to ninety an hour. The pulleys are 12 inches in diameter, and should make from 90 to 120 revolutions per minute. Use a 3 inch belt. Pulley on line shaft should have 6 inch straight face. Floor space, 24 x 34 inches. Weight, 600 pounds.



## SLEEVE IRONER.

**I**T is designed especially for finishing the sleeves of shirts close to the wrist bands, and is a very useful machine for this purpose. The pulleys are 10 inches in diameter, and should make 120 revolutions per minute. Use a 2 inch belt. Pulley on line shaft should have 4 inch straight face. Floor space, 20 x 32 inches. Weight, 300 pounds.

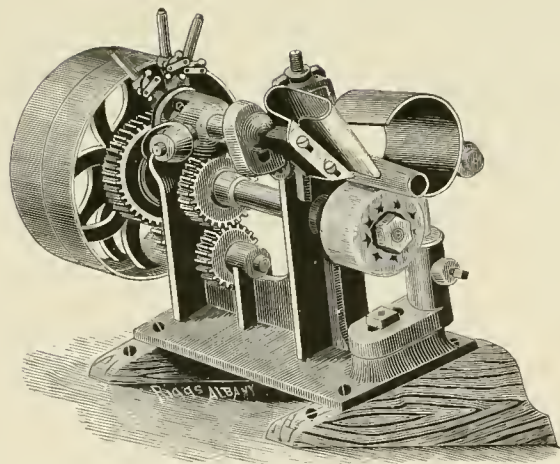


## BODY IRONERS.

**W**E build three sizes of these machines, with rolls 12, 18 and 22 inches in length

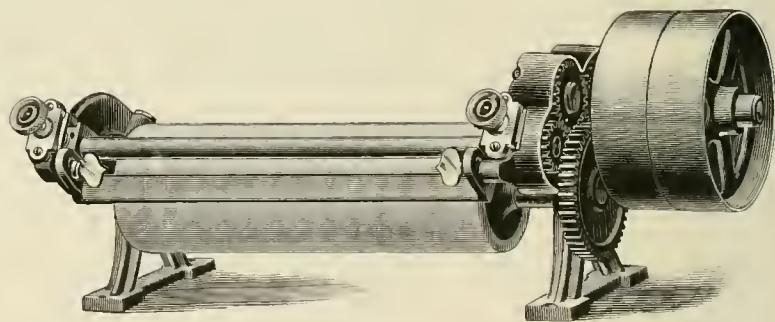
The machine is constructed so that the covered drum runs continuously, or not, as desired. The gears are cut and the shafts are made of machinery steel.

The pulleys are 12 inches in diameter, and should make 150 revolutions per minute. Use a 3 inch Belt. Pulley on line shaft should have 6 inch straight face. Floor space, 30 x 64 inches. Weight, 900 pounds.



**COLLAR FOLDER.**

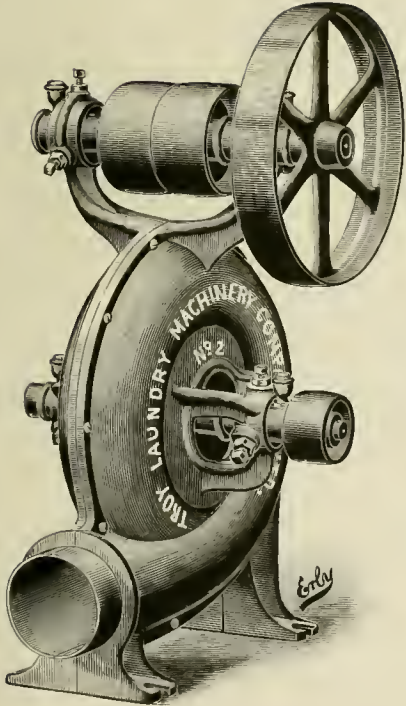
The pulleys are 8 inches in diameter, and should make from 50 to 60 revolutions per minute. Use a  $1\frac{1}{2}$  inch belt. Pulley on line shaft should have 4 inch straight face. Space required, 11 x 18 inches. Weight, 60 pounds.



**IMPROVED  
COLLAR AND CUFF SHAPER.**

The pulleys are 6 inches in diameter, and should make 100 to 120 revolutions per minute. Driving pulley on shaft should have 4 inch straight face. Weight about 35 pounds. Space required about 10 x 18 inches.





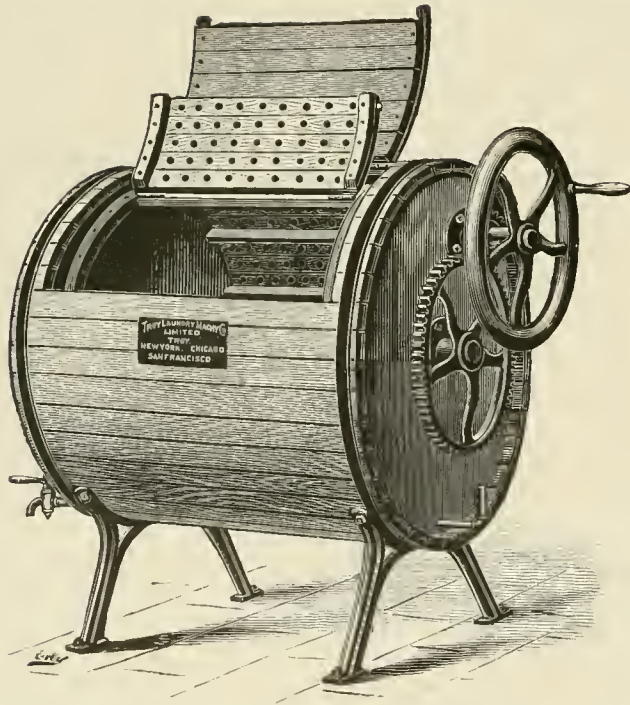
## PRESSURE BLOWER WITH COUNTER SHAFT.

### NO. 1.

THE tight and loose pulleys are 5 inches in diameter by  $1\frac{1}{2}$  inch face, and should make 350 revolutions per minute. Use a  $1\frac{1}{2}$  inch belt. Pulley on line shaft should have 3 inch straight face. Floor space, 10 x 12 inches. Weight, 40 pounds.

### NO. 2.

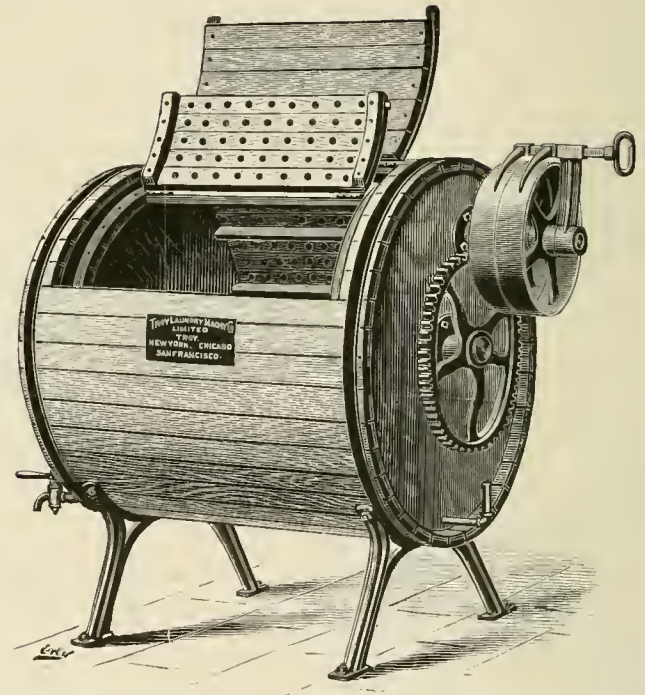
The tight and loose pulleys are 4 inches in diameter by 2 inch face, and should make 600 revolutions per minute. Use a  $1\frac{1}{2}$  inch belt. Pulley on line shaft should have 4 inch straight face. Floor space, 21 x 16 inches. Weight, 75 pounds.



### HAND CYLINDER WASHER.

SIZE OF INSIDE CYLINDER, 24 X 24 INCHES.

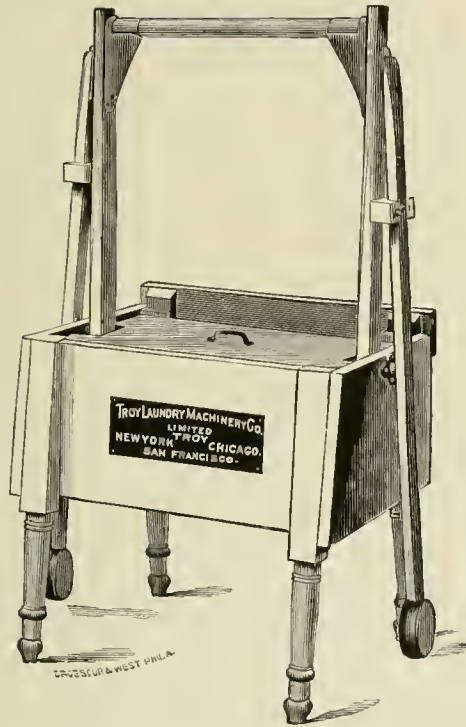
The cylinder should make 25 revolutions per minute. Floor space, 28 x 48 inches. Weight, 400 pounds.



### POWER WASHER.

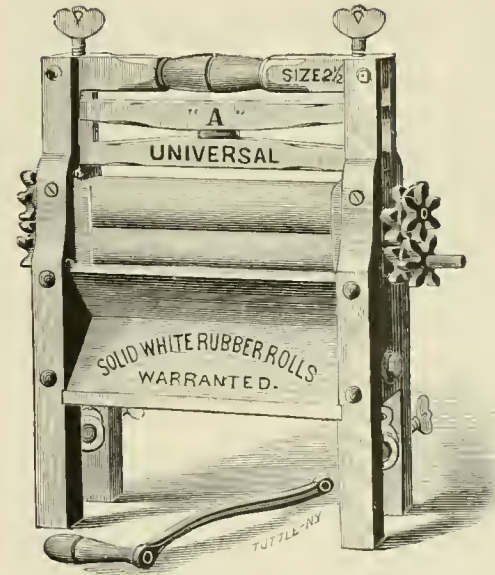
SIZE OF INSIDE CYLINDER, 24 X 24 INCHES.

The tight and loose pulleys are 12 inches in diameter and 2 inch face, and should make 75 revolutions per minute. Use a 2 inch belt. Floor space, 28 x 48 inches. Weight, 400 pounds.



### HAND WASHER.

No. 1, capacity 10 shirts. No. 3, capacity 12 shirts. No. 4, capacity 14 shirts. No. 5, capacity 18 shirts. No. 6, 24 shirts, or their equivalent, at a load.

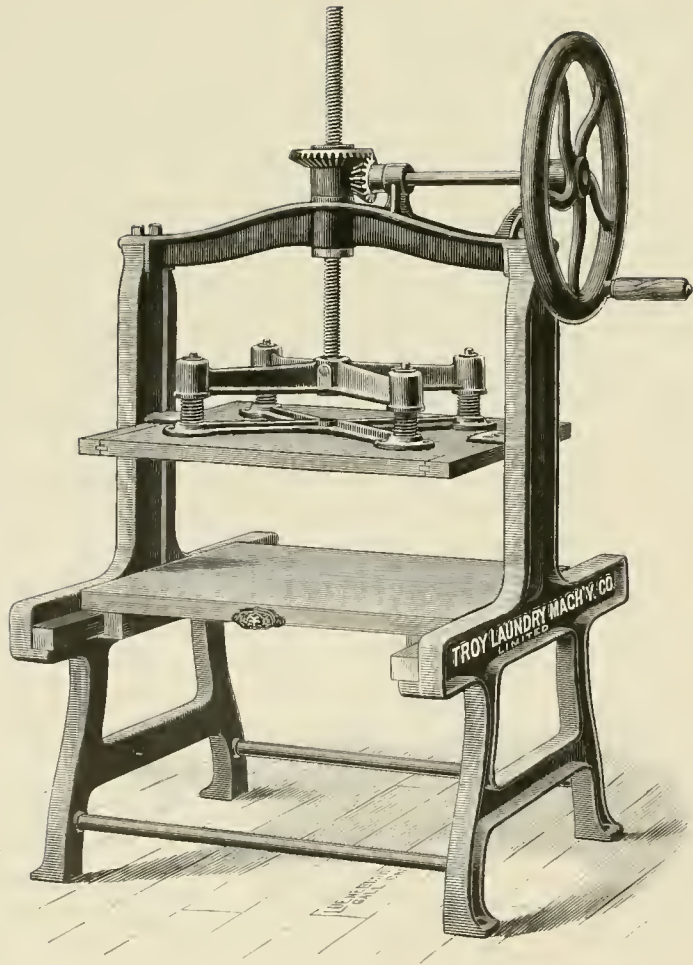


### THE UNIVERSAL WRINGERS.

No. 2½, Rolls 10 x 1¾ in. No. 1, Rolls 12 x 2 in.  
No. 1½, Rolls 11 x 1¾, in. No. 8, Rolls 14 x 2¼ in.

The Universal Wringer, for stationary tubs only, with reversible water guide to turn the water either way.

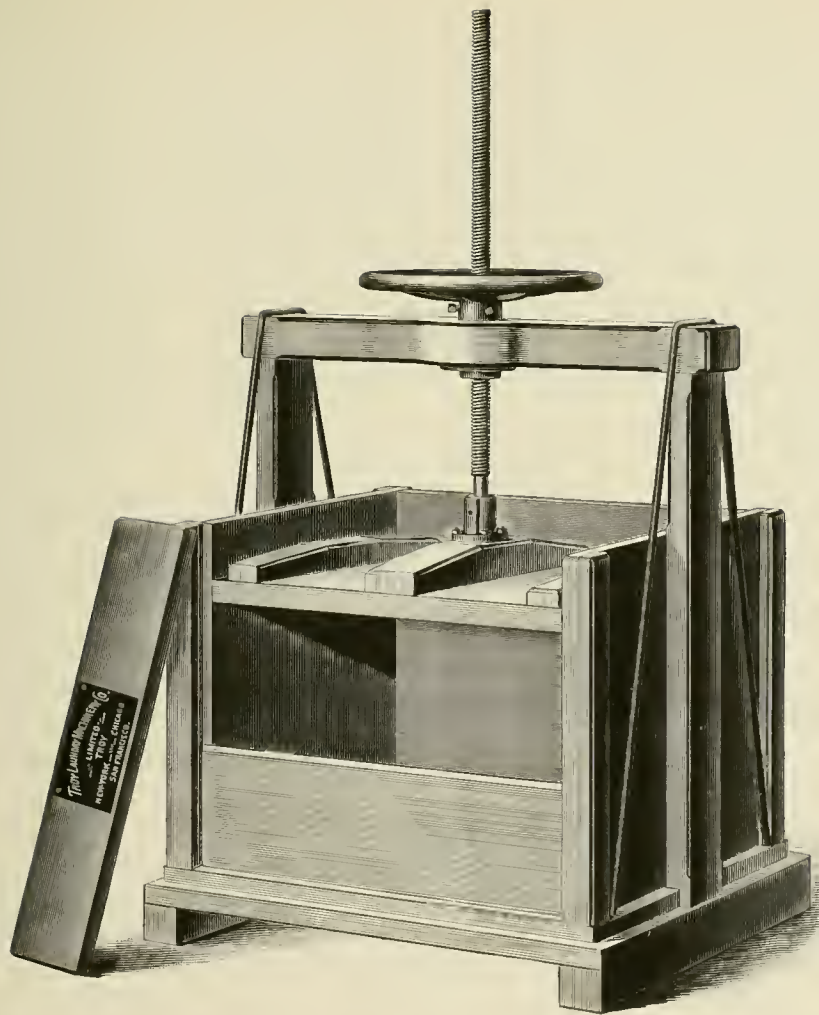
Size A 2½, Rolls 10 x 1¾ inches. Size B 1½, Rolls 11 x 1¾ inches. Size C 1, Rolls 12 x 2 inches. Size D 8, Rolls 14 x 2¼ inches.



### DAMPENING PRESS.

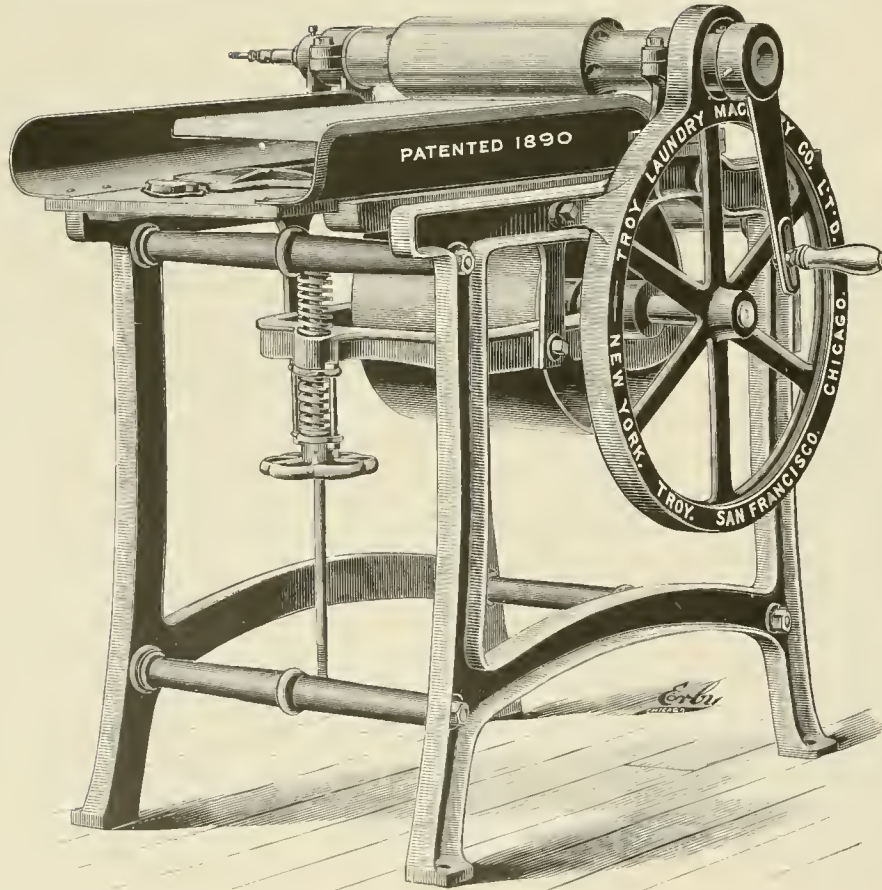
THIS press is made almost entirely of iron. It has 4 springs set in iron braces at each corner of the follower. They have a movement of 2 inches and give a pressure of 800 pounds. It can be operated from either side. Size, 24 x 28 inches. Weight, 500 pounds.





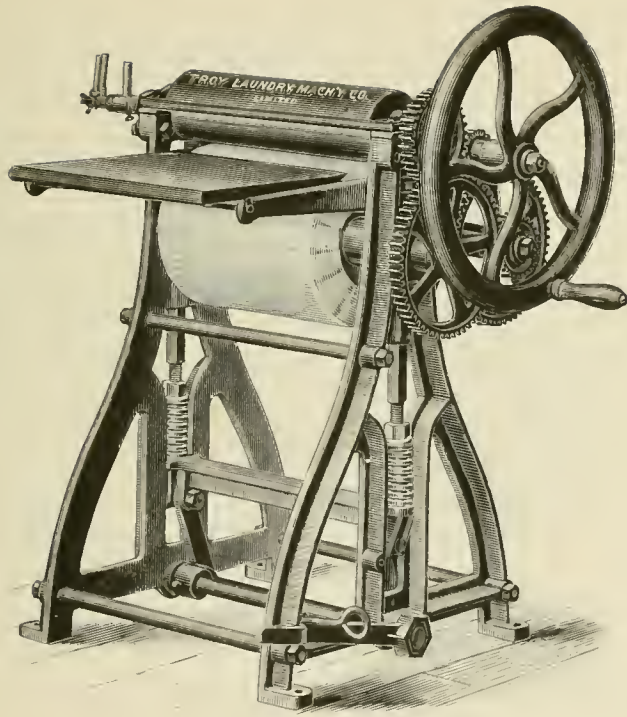
## DAMPENING PRESS.

We build this press in two sizes: 24 x 24  
and 24 x 30 inches. Weight, 300 pounds.



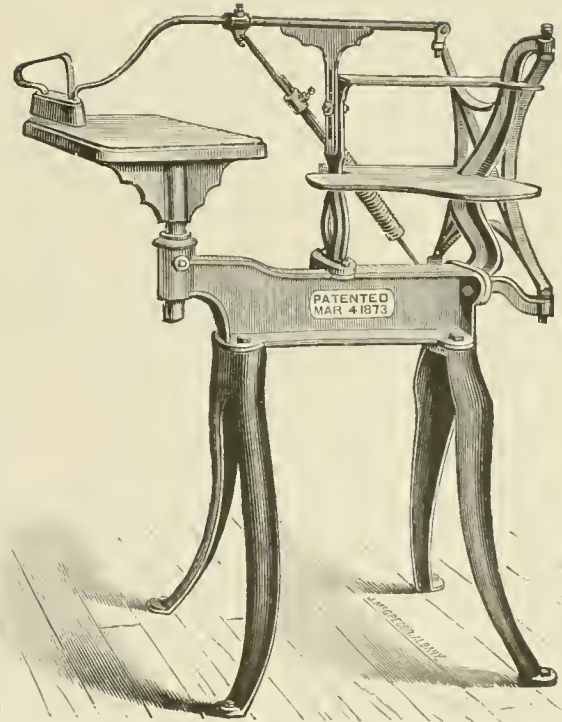
## NO. 9 COMBINED COLLAR, CUFF AND SHIRT IRONER.

THE No. 9 Combined Collar, Cuff and Shirt Ironer is a very convenient machine for hand laundries. It will give a gloss finish, and can be used with either gas or gasoline burner. It has cut gears, and the new device for adjusting the pressure, etc., makes it the best hand combined ironer on the market. Floor space, 36 x 40 inches. Weight, 650 pounds.



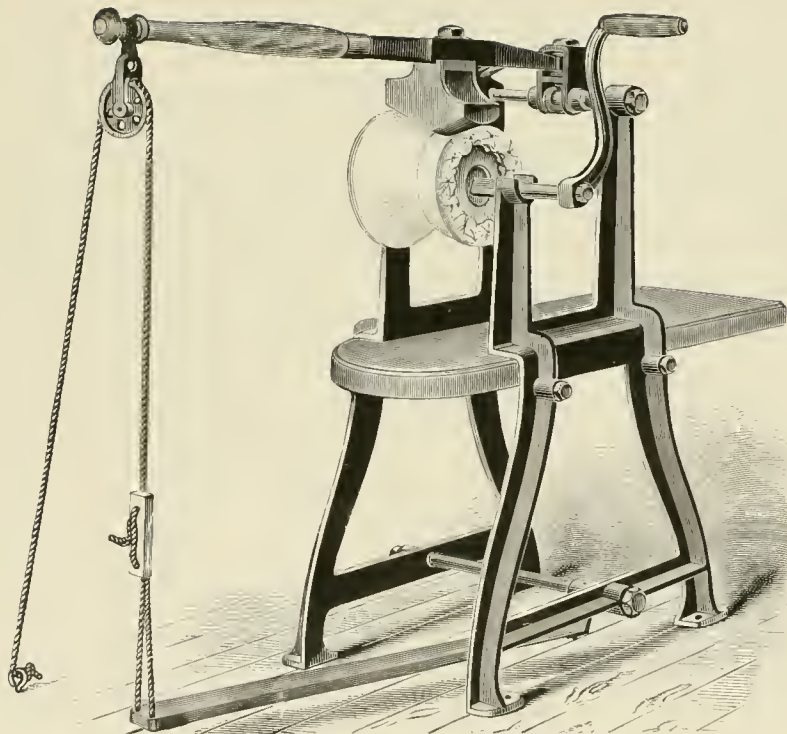
### NO. 7 HAND IRONER.

This little ironer is designed for laundries that are without steam power. It does its work as perfectly and satisfactorily as the larger machines. Gives a high gloss finish, or, by reducing the pressure, the finish is reduced to medium gloss. From 100 to 150 dozen collars or cuffs can be ironed per day. Runs easily, and at very trifling cost for gas. Floor space, 26 x 30 inches. Weight, 100 pounds.



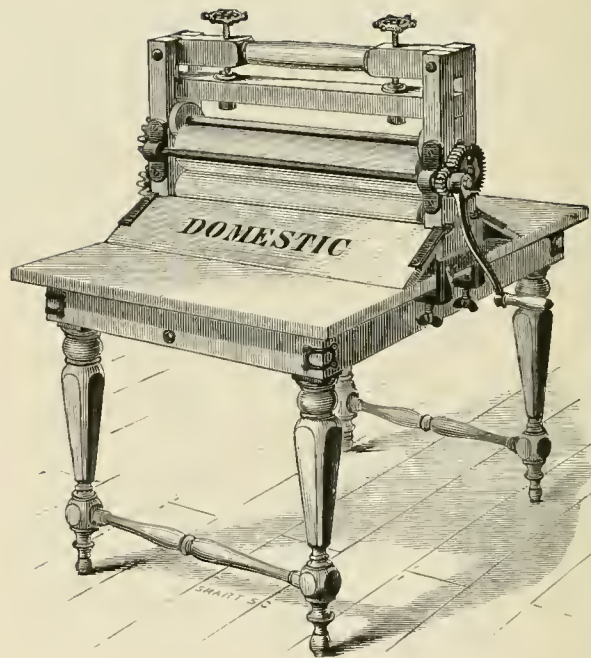
### TYLER POLISHING MACHINES.

This machine, though very simple to operate, produces results superior to any hand machine made. It will polish a shirt bosom perfectly, giving it a very high finish. Collars and cuffs are done on it equally as well as shirts. An ironer can do twice as much with this machine as by hand alone. The double jointed arm allows the iron to be moved in any direction while the pressure is obtained by the powerful spring. Floor space, 30 x 30 inches. Weight, 150 lbs.



### IMPROVED BLOCK IRONER.

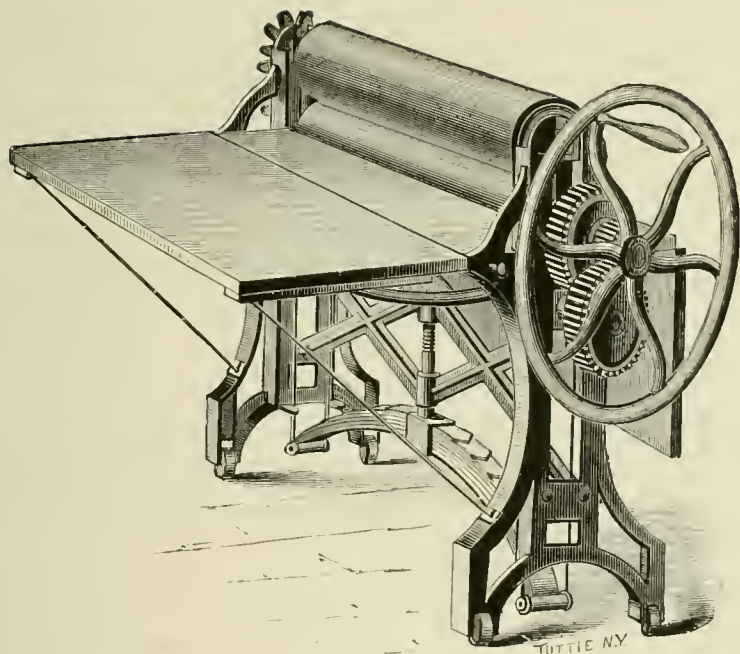
This is an improved pattern of the old-fashioned block machine, too well known to need description. It is a very useful machine with a skilled operator, where there is no demand for steam power machinery. These machines are furnished with either beveled or straight blocks, as desired. Floor space, 18 x 48 inches. Weight, 200 pounds.



### THE DOMESTIC MANGLE.

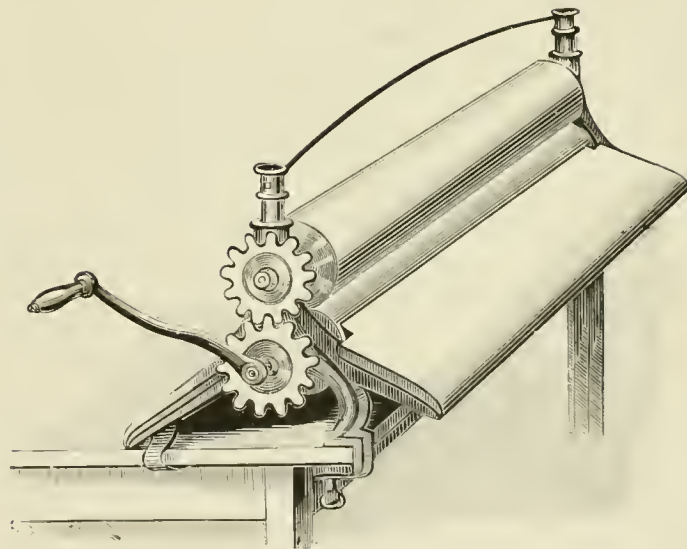
It is provided with anti-friction wheel bearings, and will therefore admit of heavy pressure and yet turn easily. Only one size is made, viz.: No. 2, with rolls 23 x 3½ inches.





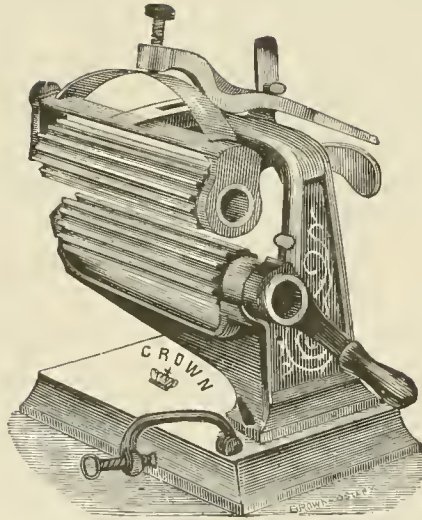
### THE AMERICAN MANGLE.

Made in three sizes for hand power, viz.: No. 3, rolls  $23 \times 5\frac{1}{4}$  inches. No. 2, rolls  $26\frac{1}{2} \times 6$  inches. No. A, rolls  $33 \times 6$  inches.



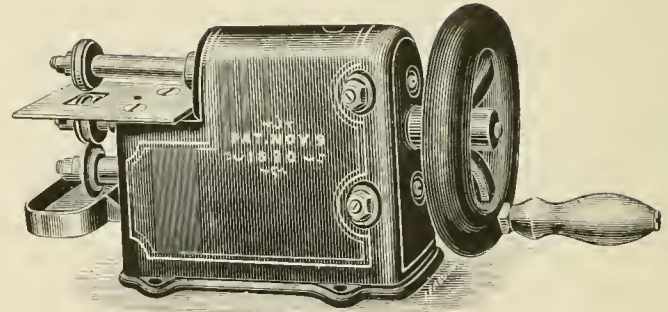
### THE PUTNAM MANGLE.

Only one size is made, viz.: No. 1, with rolls  $23 \times 3\frac{1}{4}$  inches.



### FLUTERS.

Rolls, 4½, 6 and 8 inches in length, and having 10, 12, 15, 18, 22, 26, 30, 40 and 50 flutes.

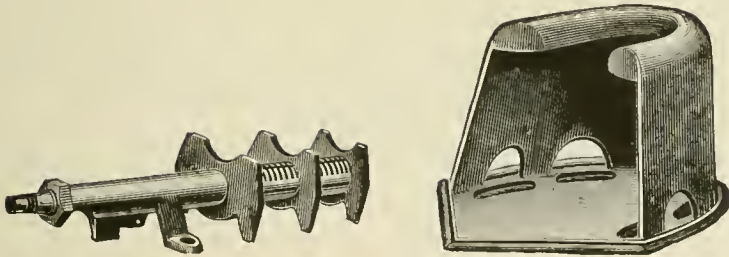


### SEAM DAMPENER.

Capacity, 500 dozen per day. Space required, 6 x 15 inches. Weight, 20 pounds.

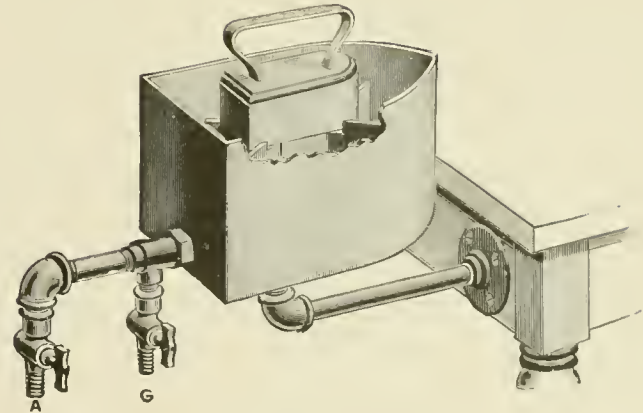


### HAND SEAM DAMPENER.



**GAS IRON HEATERS.**

ONE IRON HEATER AND HOOD.

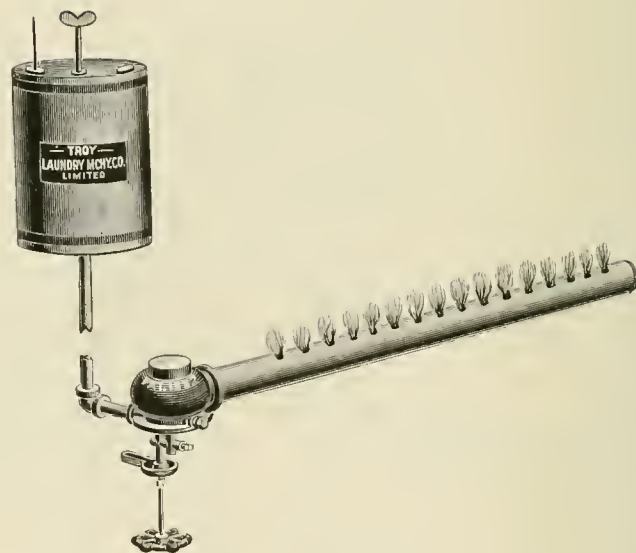
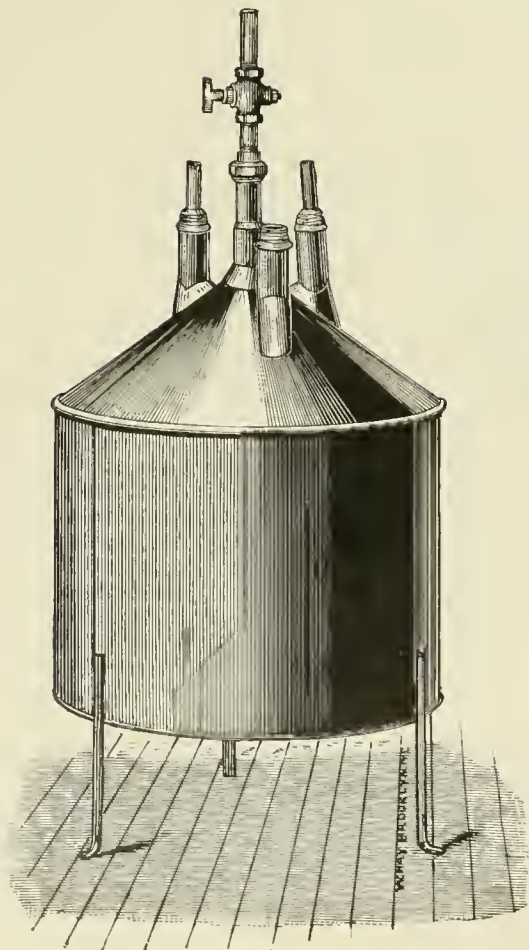


**GAS IRON HEATER.**

For either sad or polishing irons. To be used in combination with a blower.

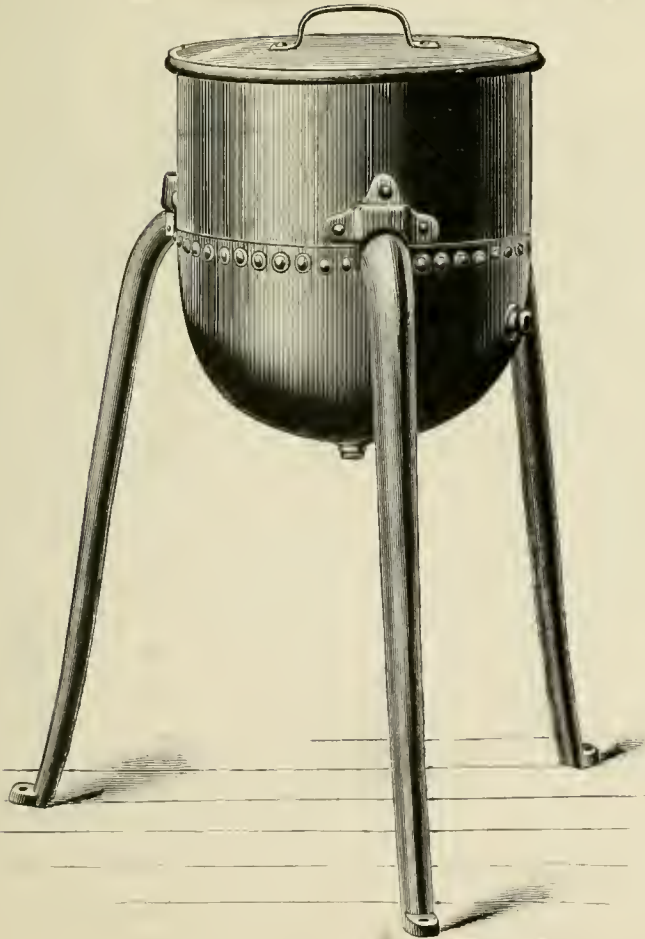
**GAS MACHINE.**

For generating gas from naphtha or gasoline for heating ironing machines. The cost of production is from 75 to 90 cents per 1000 cubic feet. Floor space, 17 x 17 inches. Weight, 55 pounds.

**GASOLINE BURNER.**

For heating small ironing machines.

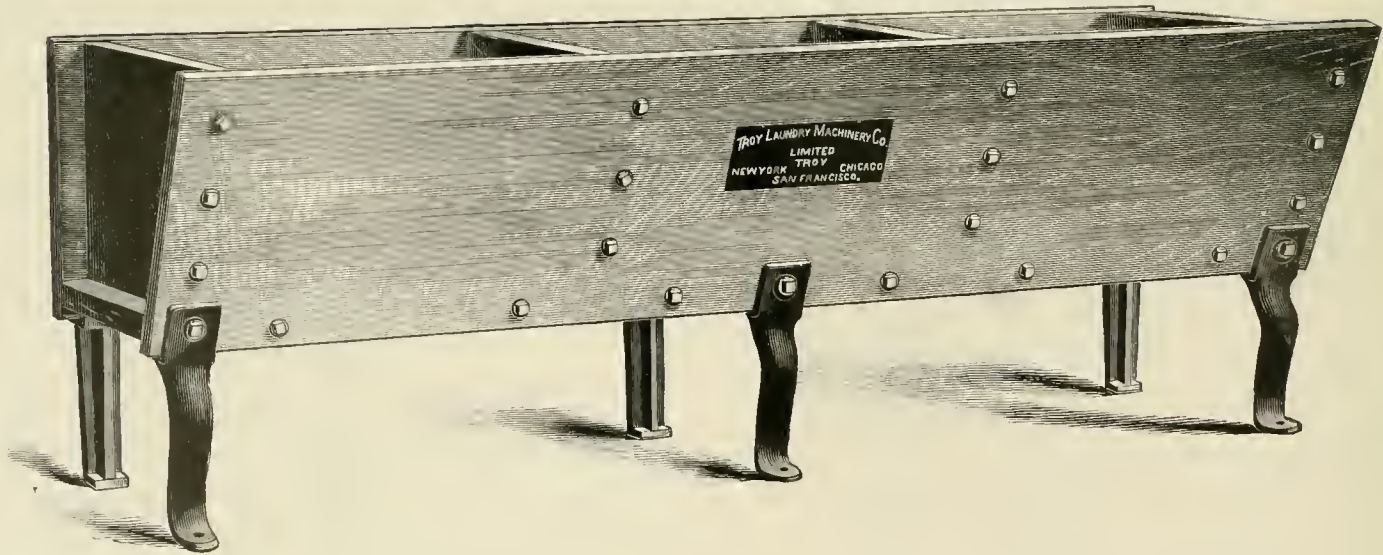




### STARCH KETTLES.

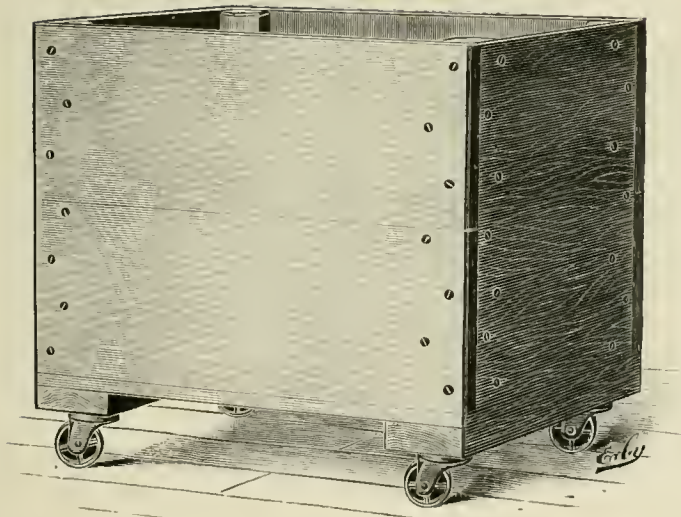
THEY are made of the best hammered copper, heavily tinned, with a steam jacket riveted at the center, warranted to resist 100 pounds of steam pressure to the square inch. We make 5 sizes:

	5	gallon,	12	inches	deep	x	12	in.	in	diam.	weight,	60	lbs.
10	"	15	"	x	15	"	"	75	"				
15	"	17	"	x	18	"	"	90	"				
20	"	19	"	x	20	"	"	100	"				
30	"	21	"	x	23	"	"	120	"				
40	"	28	"	x	24	"	"	150	"				



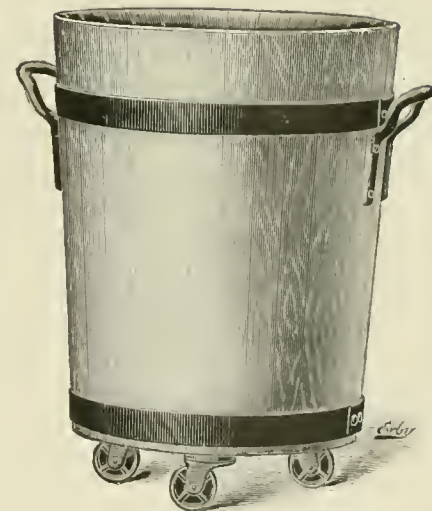
### STATIONARY WASH TUBS.

THESE tubs are made of 2 inch cypress, grooved, leaded and put together with lag bolts, having brass waste plugs, and iron legs, as shown in cut. Inside measure of each compartment is as follows: Length 28 inches, width 25 inches, depth 17 inches, height, including standards 32 inches.



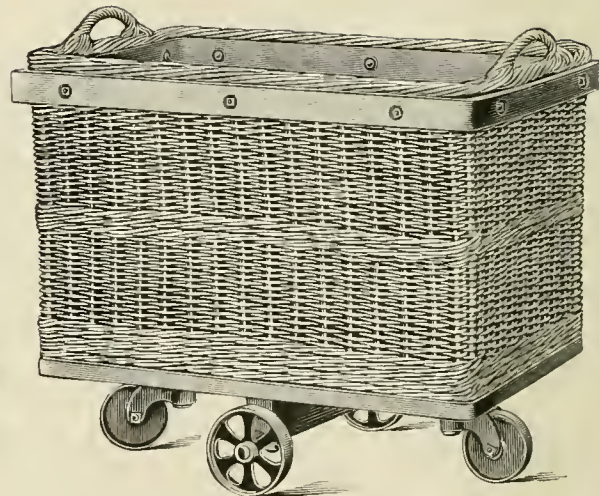
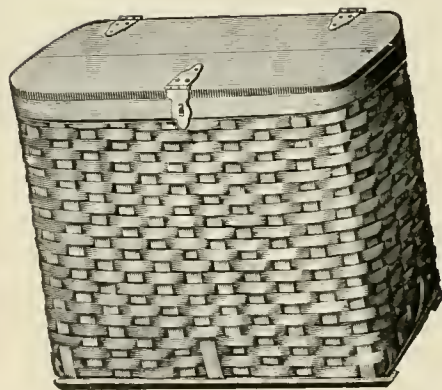
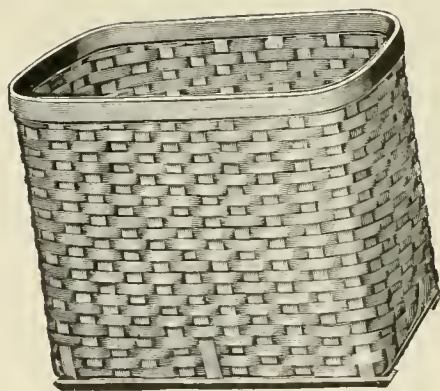
**SQUARE TRUCK TUB.**

24 X 30 X 24 INCHES DEEP. WEIGHT, 100 POUNDS.  
OTHER SIZES MADE IF DESIRED.



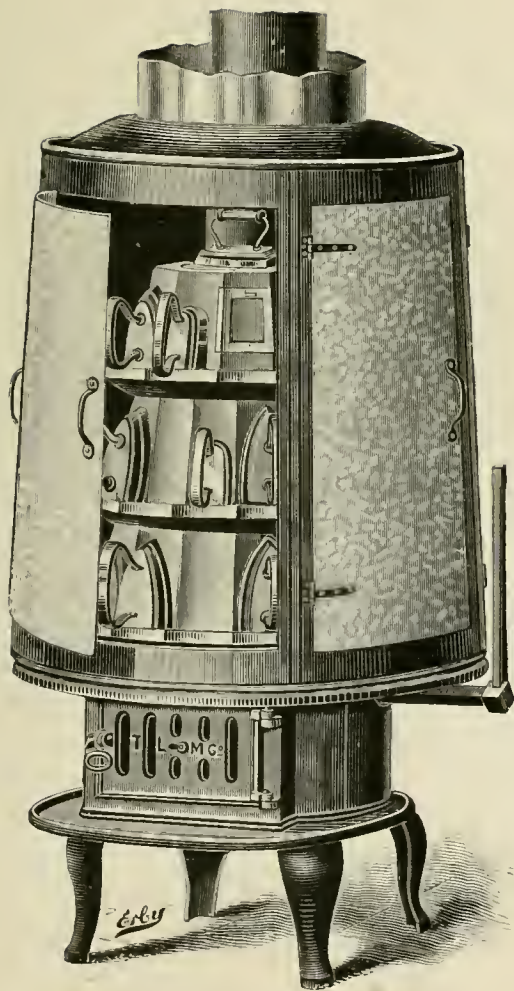
**ROUND TRUCK TUB.**

20 INCHES IN DIAMETER X 26 INCHES  
DEEP INSIDE. WEIGHT, 100 POUNDS.

**BASKETS.****LAUNDRY TRUCK.**

These baskets are made in four sizes, viz.: 2, 3, 4 and 7 bushels each. Furnished plain, iron-bound, or with cover.





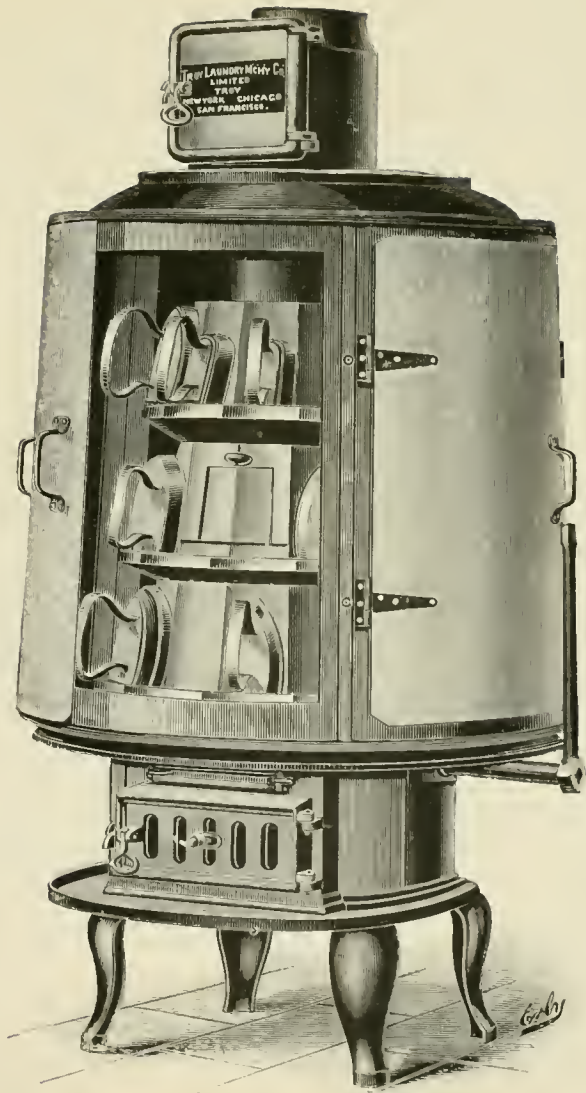
**NO. 2. THREE  
TIERS, WITH  
CASING.**

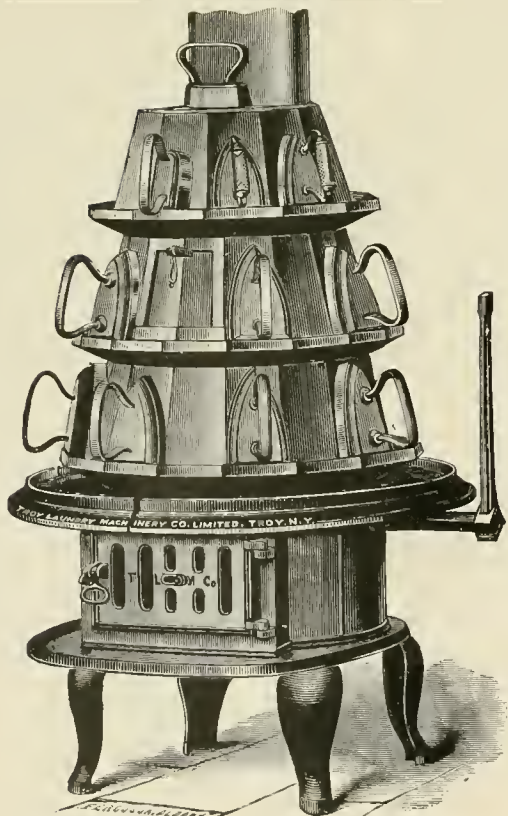
It heats at one time  
46 Sad Irons or 92 Pol-  
ishing Irons. Weight,  
760 pounds.

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**NO. 2. THREE TIERS,  
WITH CASING AND  
SELF-FEED.**

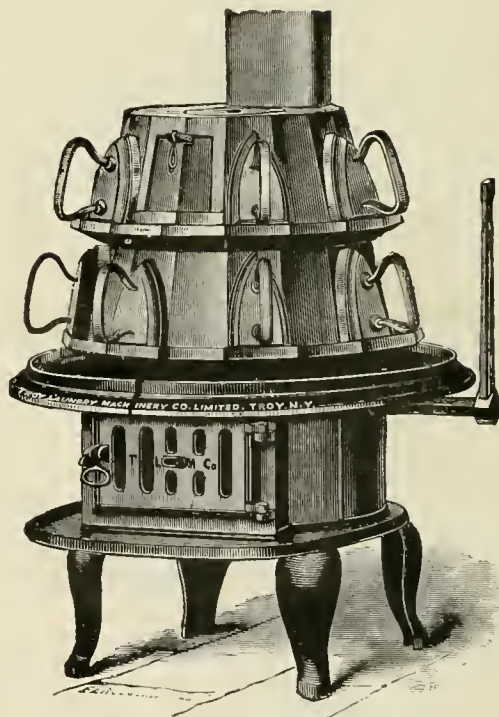
It heats at one time  
46 Sad Irons, or 92 Pol-  
ishing Irons. Weight,  
800 pounds.





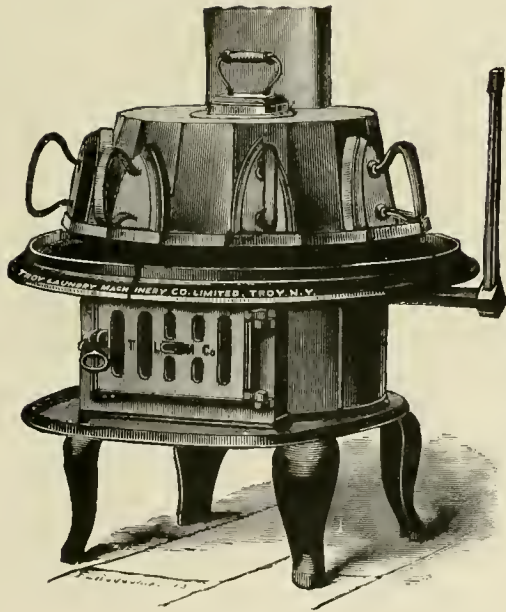
### NO. 2. THREE TIERS.

It heats at one time 46 Sad Irons or 92 Polishing Irons. Weight, 550 pounds.



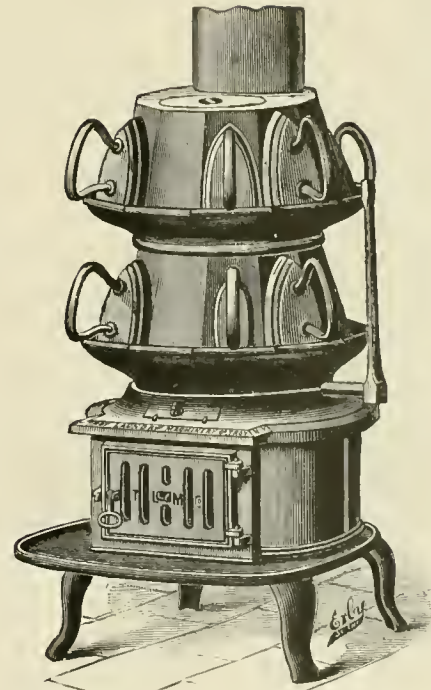
### NO. 2. TWO TIERS.

It heats at one time 30 Sad Irons or 60 Polishing Irons. Weight, 480 pounds.



**NO. 2. ONE TIER.**

It heats at one time 16 Sad Irons or 32 Polishing Irons. Weight, 390 pounds.

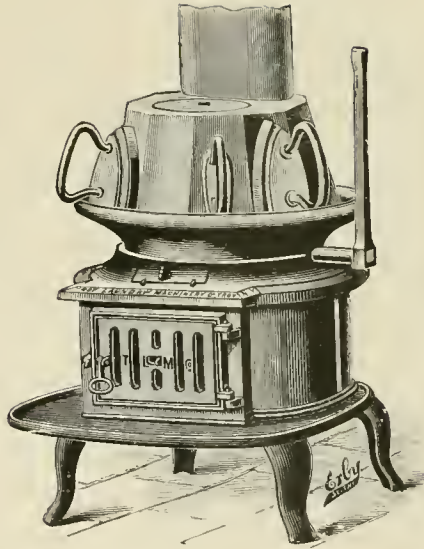


**NO. 1. TWO TIER.**

The No. 1, two tier, will heat at one time, 24 Sad Irons, or 48 Polishing Irons. Weight, 285 pounds.

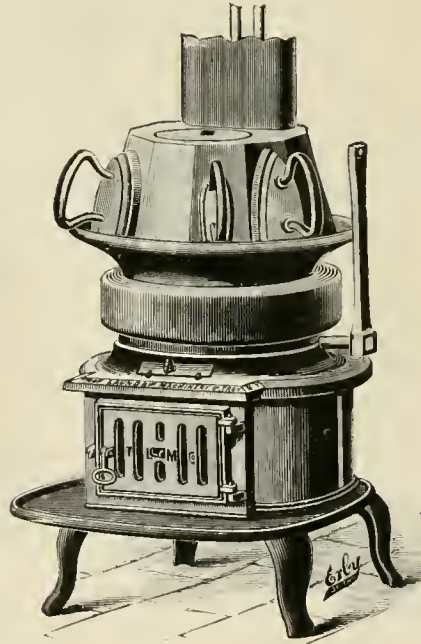
The No. 1, three tier, will heat at one time, 36 Sad Irons, or 72 Polishing Irons. Weight, 360 pounds.





**NO. 1. ONE TIER.**

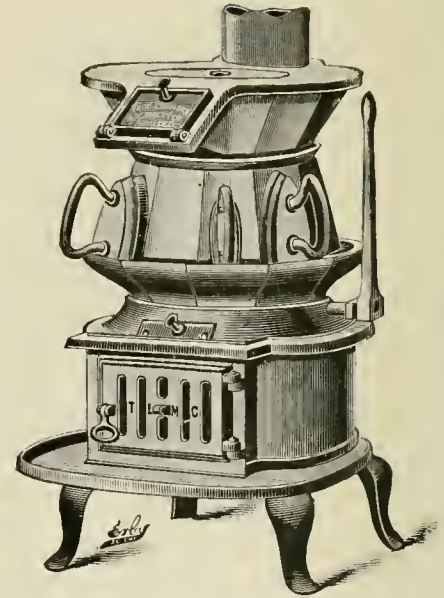
The No. 1, one tier, will heat at one time, 12 Sad Irons, or 24 Polishing Irons. Weight, 210 pounds.



**NO. 1. ONE TIER.**

**WITH HOT WATER RING.**

Weight, 265 pounds.

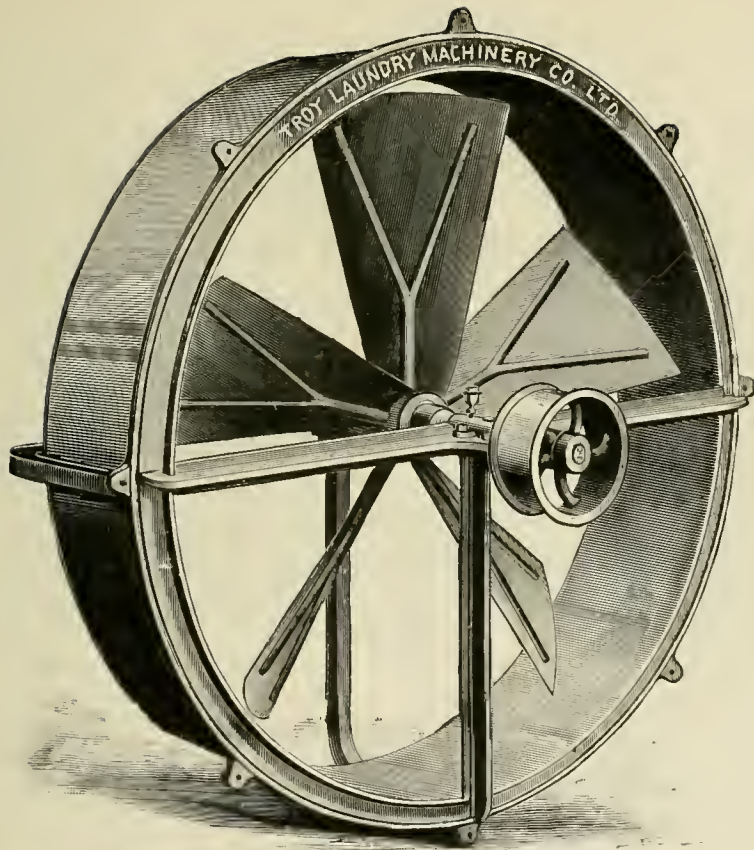


**NO. 1. ONE TIER.**

**WITH BOILER TOP.**

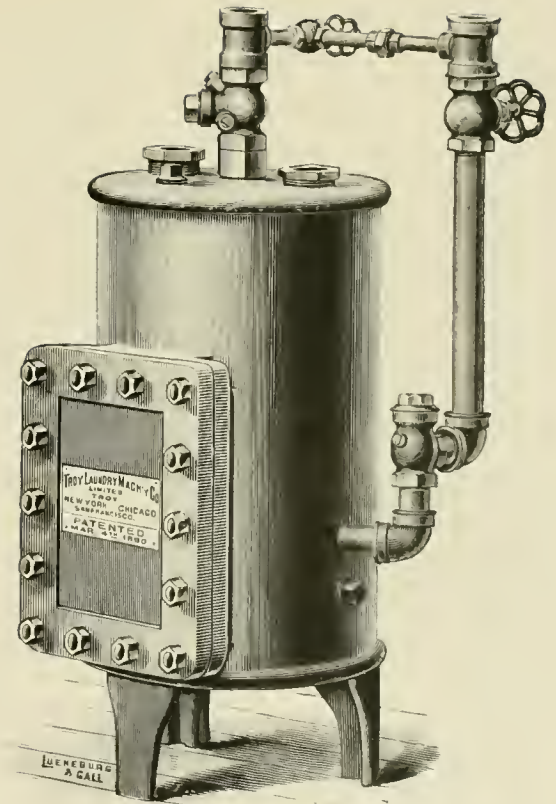
This Stove will be found very convenient in laundries where steam is not used, for heating water, boiling starch, etc. It will heat 12 Sad Irons or 24 Polishing Irons, without placing the irons on the extreme top. Weight, 265 pounds. Diameter of top, 20 inches.





### EXHAUST FAN.

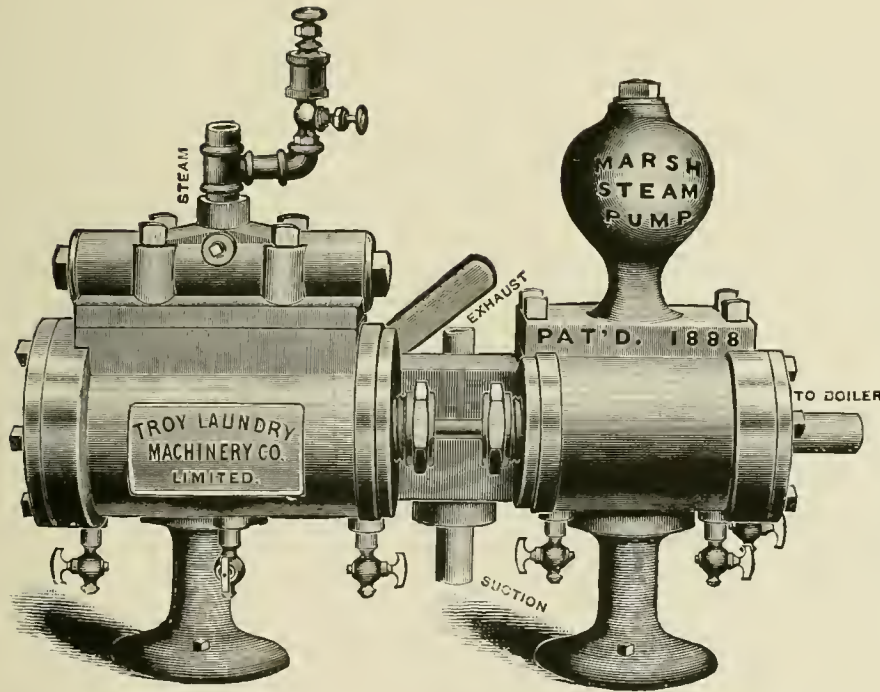
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
Diameter of Wheel	18	24	30	36	42	48	54	60	72	84
Diameter of Pulley	4	4	6	7	8	9	9	10	12	14
Face of Pulley	2	2	2	3	3½	4	4	5	5½	6



### STEAM SEPARATOR.

It removes all entrained water from the supply pipe and delivers dry hot steam to a mangle, dry-room or pump.





## BOILER FEED PUMP.

ARRANGED FOR HOT OR COLD WATER.

### DIMENSIONS.

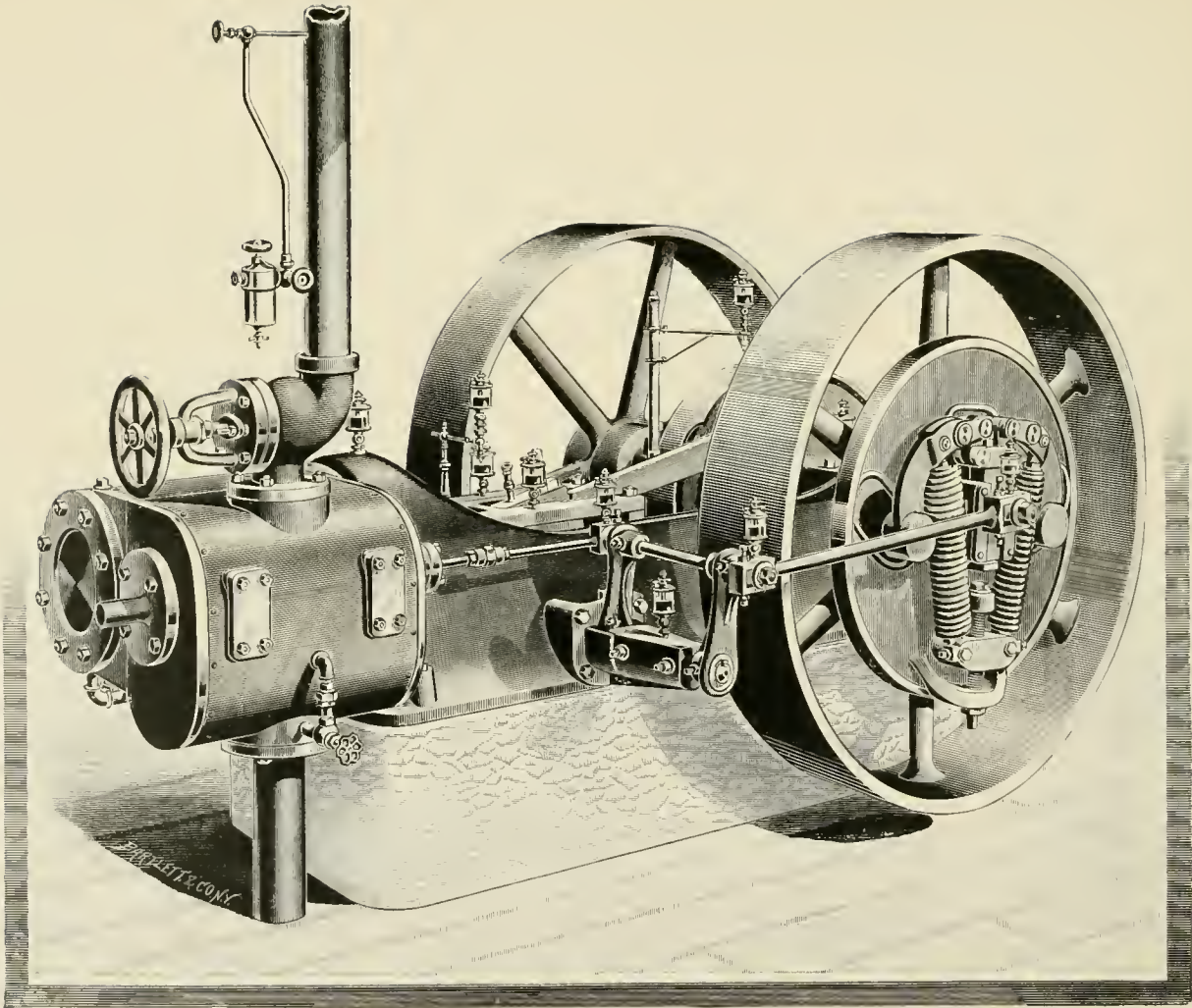
	B	BB	C	D	E	F
Diameter of Steam Cylinder	2 1/2	3	4	5	6	8
Diameter of Water Cylinder	1 1/2	1 3/4	2 1/2	3	4	5
Length of Stroke	1 1/2	2	3	4	5	8
Size of Steam Pipe	1 1/2	2	3	4	5	8
Size of Exhaust Pipe	1	1 1/4	1 1/2	2	3	4
Size of Suction Pipe	1 1/2	2	3	4	5	8
Size of Discharge Pipe	1 1/2	2	3	4	5	8
Strokes per minute	200-350	175-300	150-250	140-200	130-180	125-180
Gallons per Stroke	0.15	0.205	0.272	0.34	0.41	0.574
Gallons per Minute	3	3.64	40.55	15.5205	23.868	43.975
Gallons per Hour	180	218.4	2431.8	931.77	1432	2620.5
Maximum H. P. Guaranteed	20	35	60	100	150	250
Floor Space	7 X 12	8 X 16	10 X 21	11 X 23	10 X 32	13 X 37
Weight	23 lb	50 lb	100 lb	140 lb	250 lb	.....

NOTE.—Capacity based on Slowest Speed. (Measurement in inches.)

## FEED WATER HEATER.

THE shell of heater is made of steel; the flues of seamless drawn brass; the heads are flanged with a special rounding flange, so that there is no possibility of leaking from unequal expansion. Each heater is subjected to a test of 150 pounds, and guaranteed to be perfectly tight. These heaters are especially adapted where large quantities of boiling water are used. They are made in sizes from 30 to 1200 horse power.







**AUTOMATIC CUT-OFF ENGINE.**

These Engines are built from new designs and patterns. The Cylinders are jacketed, and all the working parts are constructed in the simplest manner, and the most efficient for wear and adjustment. They are made from tem-plates, and repairs can be furnished when wanted. All reciprocating parts are well balanced by the Crank Discs, which are large in diameter.

**SPECIFICATIONS OF AUTOMATIC CUT-OFF ENGINES.**

Number of Engine	1	2	3	4	5	6	7	8
Size of Engine, in inches	8 x 10	9 x 10	10 x 12	11 x 12	12 x 12	13 x 12	14 x 14	15 x 14
Number of revolutions per minute	300	300	275	275	275	275	250	250
Rated Horse Power (at 40 lbs. M. E. P.)	30	38	50	62	75	87	107	123
Diameter of Steam Pipe, in inches	2½	3	3	3½	4	4½	5	5
Diameter of Exhaust Pipe, in inches	3½	3½	4	4½	4½	5	6	6
Diameter of Shaft and Crank Pin, in inches	3½	3½	4¼	4¼	4¾	4¾	5½	5½
Size of both Pulleys, in inches	48 x 9½	48 x 9½	54 x 10½	54 x 10½	54 x 12½	54 x 12½	60 x 14½	60 x 14½
Floor Space occupied, in inches	90 x 44	90 x 44	114 x 72	114 x 72	114 x 75	114 x 75	126 x 80	126 x 80
Weight, about	4100	4300	5500	5800	7500	8000	12000	12500

**FIXTURES.**

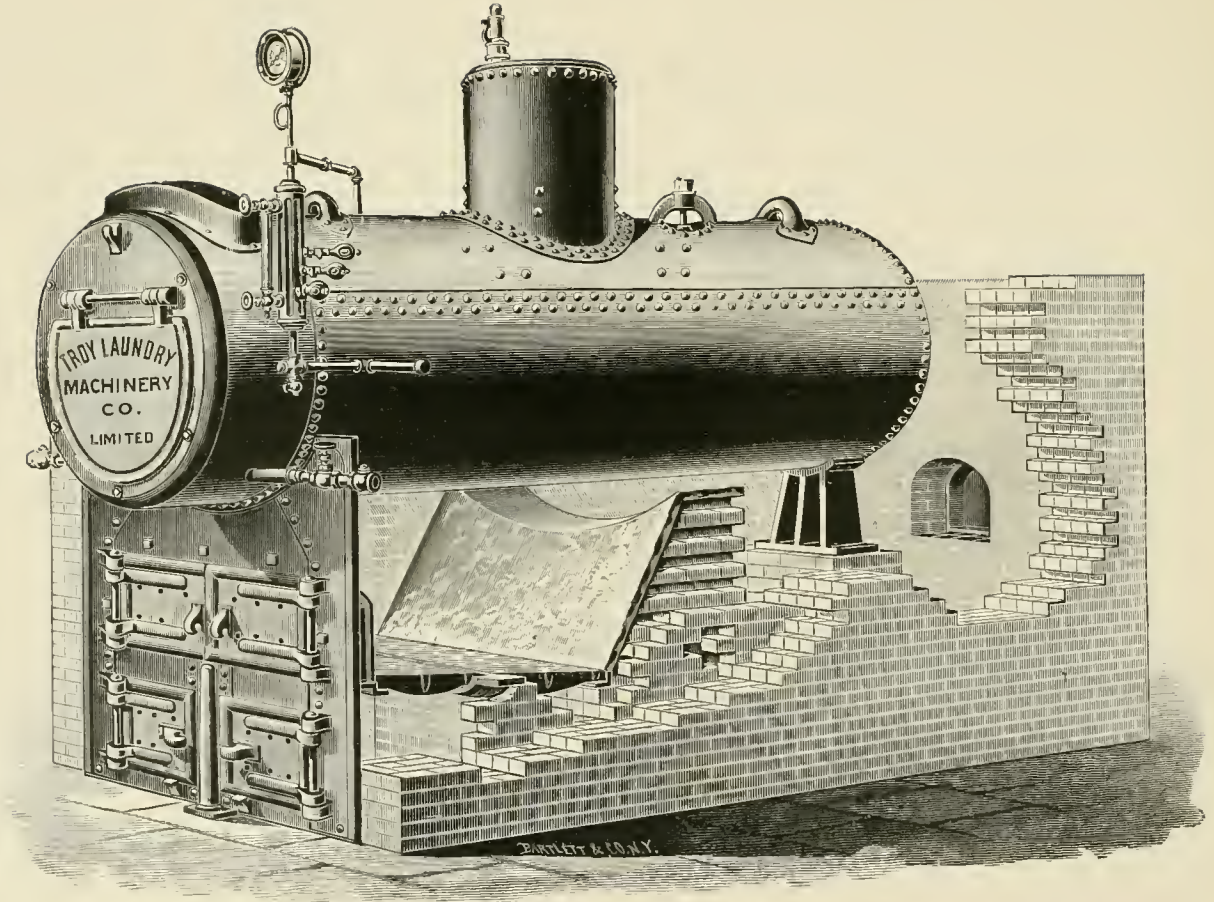
With an Engine ordered "complete" the following fixtures will be furnished:

*Gate Throttle-valve, large size Sight-feed Lubricator, two heavy Pulleys, per specifications turned and balanced, full set Sight-feed Oil Cups, nickel-plated automatic oiling devices for Crank Pin, Cross-head and Eccentric, full set steel case-hardened Wrenches, nickel-plated Crank Shield, drip connections from Cylinder and Steam Chest.*

Connecting Pipes between the Engine and Boiler, Exhaust Pipe, and Foundation Bolts are subject to order, and are charged extra.

When preferred, we will furnish a good automatic Grease Cup for Crank Pin, Cross-head and Eccentric, in place of the automatic oiling devices.

**OUR ENGINES ARE ALL THOROUGHLY TESTED UNDER STEAM BEFORE SHIPMENT.**



“STANDARD” BOILER WITH HALF ARCH FRONT.

**SPECIFICATIONS OF "STANDARD" BOILERS.**

Number of Size	1	2	3	3½	4	5	6	7	7½	8	9	10	10½	11	12	13	14	15	16	17
Horse Power, as usually rated	10	12	15	20	20	25	30	35	40	40	45	50	60	60	70	80	90	100	125	150
Diameter of Boiler	32	34	36	36	42	42	44	44	44	48	48	54	54	60	60	60	66	66	72	72
Thickness of shell	1-4	1-4	1-4	1-4	9-32	9-32	9-32	9-32	9-32	5-16	5-16	5-16	5-16	11-32	11-32	11-32	3-8	3-8	7-16	7-16
Thickness of main heads	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	7-16	7-16	7-16	7-16	7-16	7-16	7-16	5-16	5-16	5-16	5-16
Thickness of dome plate	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	5-16	5-16	5-16	5-16	5-16	5-16	5-16	5-16	5-16	5-16	5-16
Thickness of dome head	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Length of tubes	7	7	8	10	8	10	10	12	14	12	14	12	15	12	14	16	15	16	16	18
Number of tubes (3 inch diam.)	20	25	28	28	35	38	40	46	46	52	52	64	64	82	82	98	98	120	120	84
Square feet heating surface	151	185	220	288	305	376	440	526	611	591	687	708	880	885	1028	1172	1296	1377	1660	4m lbs
Length of grates	36	36	36	42	36	42	42	48	54	48	54	48	54	48	54	54	54	54	54	60
Diameter of dome	18	18	20	20	22	22	22	22	22	26	26	30	30	32	32	32	36	36	36	36
Height of dome	20	20	22	22	24	24	24	24	24	28	28	28	34	36	36	36	36	36	36	36
Diameter of smoke stack	14	16	16	16	20	20	22	22	24	24	24	24	26	28	28	30	30	30	30	34
Length of smoke stack	28	24	28	35	28	35	35	40	50	40	50	40	50	40	50	60	60	60	60	60
Weight of boiler and britchen	1900	2300	2600	3000	3500	4100	4400	5100	5700	6000	6800	7400	8740	9000	10000	11100	12900	13600	16500	18,300
Weight of boiler fixtures	1500	1600	1700	2000	2200	2500	2700	2900	3200	3400	3700	3700	4000	4300	4700	5000	5400	5900	6500	6700
Weight of boiler and fixtures	3400	3900	4300	5000	5700	6600	7100	8000	8400	9400	10500	11100	12700	13300	14700	16100	18300	19200	23000	25000
Weight of flush ended boiler, with four wall brackets	1800	2200	2500	2600	3300	3600	4300	5000	5600	5900	6700	7100	8400	8800	9800	10400	12700	13400	16300	18100
Weight, with full front and all fixtures	4400	4900	5300	6000	7000	7900	8400	9300	10200	10700	11800	12400	14900	14700	16100	17500	19900	20800	24700	26700
Number of Size	1	2	3	3½	4	5	6	7	7½	8	9	10	10½	11	12	13	14	15	16	17
With hand hole in each (3½ inch head below tubes, 14 "	16	20	22	30	36	36	42	42	50	50	61	61	78	78	84	84	102	102	102	102
	13	16	18	25	30	30	34	34	42	42	54	54	66	66	72	72	84	84	84	84

Regular boiler fixtures comprise : Half-arch front, with liners for fire-brick, grates, grate-bearers, boiler stand, rear arch bars, rear ash door and frame, safety valve, steam gauge, water gauge fitted with stand-pipe, three gauge cocks, whistle and pipe, blow-off valve, check and stop valves, smoke-stack and guys (four times the length of stack).

Grates for No. 7 and larger boilers are in two lengths. Single length grates will be furnished for these sizes when ordered, at a small additional cost. The width of the grates, in all cases, equals the diameter of the boiler. Sawdust grates, 12 inches longer than regular grates, will be substituted when ordered, without extra charge. All smoke-stacks up to and including 28 inches diameter, are made of No. 16, and larger sizes of No. 14 iron. If heavier iron is required, a proportionate charge will be made.

Wall brackets, wall plates and rollers, binding bars and rods, stack-plates and anchor bolts, are all subject to order, and are charged extra. No. 3½ and smaller sizes are without man-holes; all larger sizes have man-hole on top of shell.

**THESE BOILERS ARE ALL TESTED AND INSPECTED.**

**CLASS B, DISC-CRANK VERTICAL ENGINES.**

We present this style of Engine as the most desirable form for general purposes where small powers are required. They are very strong, heavy in construction, but well proportioned, and will stand hard work and high speed.

A critical steam test of every Engine is made before it leaves our factory, and the necessary adjustments carefully made, so that the Engine is ready to run the moment it is placed in position and given steam.

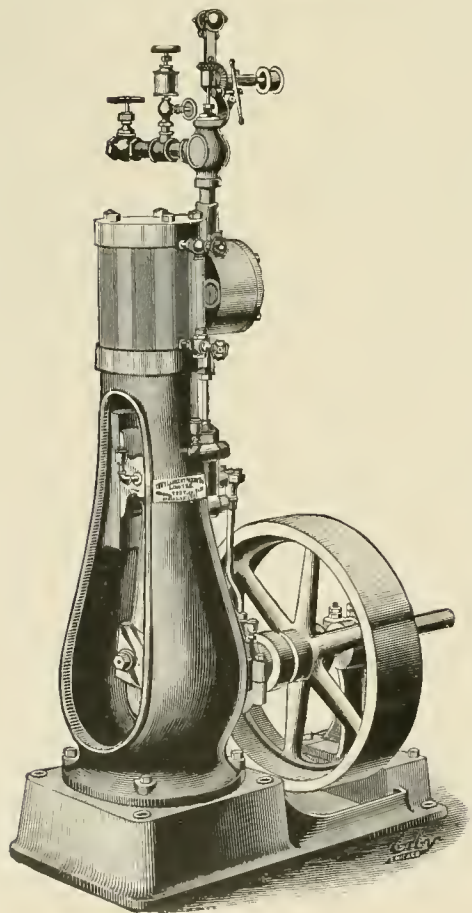
We make six sizes of this Engine as below :

**TABLE OF DIMENSIONS AND PRICE LIST.**

Horse-power, as usually rated.....	3	5	7	10	14	20
Size of Cylinder, inches .....	4 x 4	5 x 5	6 x 6	7 x 7	8 x 8	9 x 9
Revolutions per minute.....	250	250	200	190	180	160
Size of Steam Pipe, inches.....	$\frac{3}{4}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Size of Exhaust Pipe, inches.....	1	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
Diameter of Shaft, inches .....	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{5}{8}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{5}{8}$
Diameter of Fly Wheel, inches.....	16	20	24	32	36	42
Face of Fly Wheel, Inches .....	4	5	6	7	8	9
Height from Floor to center of Shaft, inches .....	10	12	14	18	20	24
	Ft.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.
Height to top of Cylinder.....	3	3 7	4 5	5 1	5 8	6 6
Floor space occupied, inches .....	15 x 28	18 x 36	22 x 40	25 x 46	28 x 50	30 x 56
Weight of Engine, lbs.....	350	600	900	1300	1800	2400

In ordering, state distinctly :

**CLASS B, DISC-CRANK VERTICAL ENGINE.**





## CLASS B, SELF-CONTAINED DISC-CRANK HORIZONTAL ENGINES.

In presenting this form of Horizontal Engine, we feel confident that it describes one peculiarly suitable for all kinds of work where high speed and smooth running are required. The Engine being all complete on a single cast iron base, prevents any of its working parts from becoming deranged or out of line. The material is of the best that can be obtained, and the workmanship excelled by none. In fact, in all our Engines we would call attention to the quality and material of our work. We do not aim to make the cheapest Engine in the market, but we do aim to make the best of this class. We spare no pains in making them perfect in every detail.

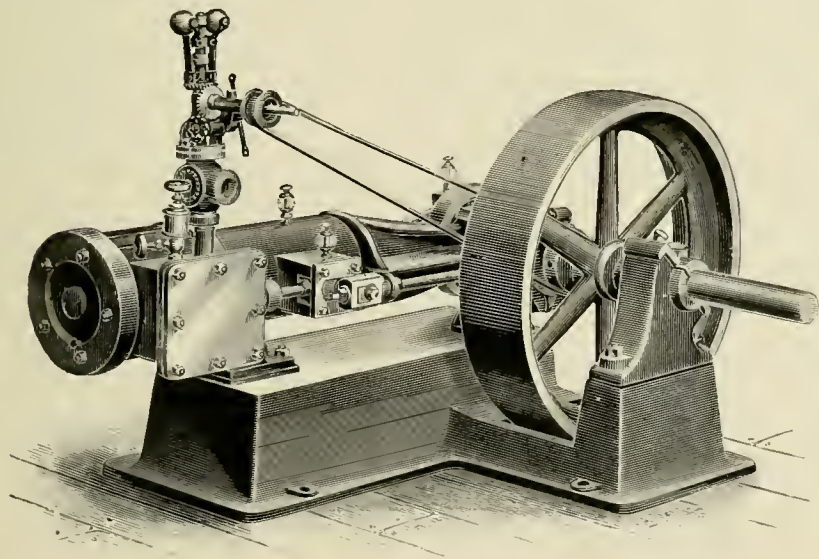


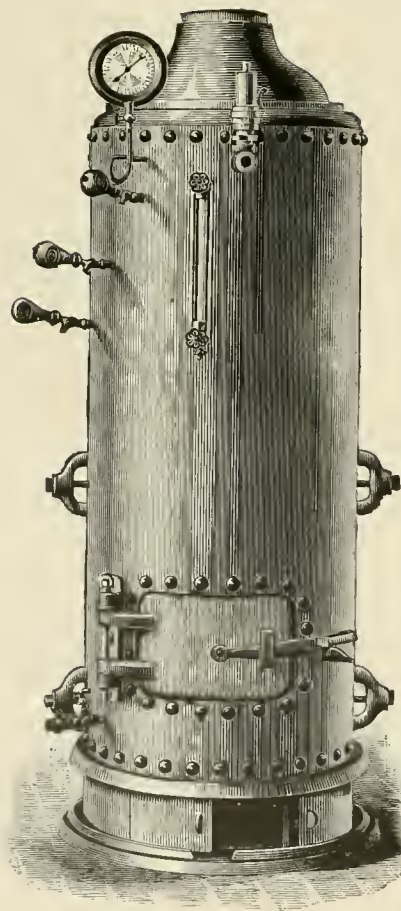
TABLE OF DIMENSIONS AND PRICE LIST.

Horse-Power, as usually rated . . .	5	7	10	14	20
Size of Cylinder . . . . . inches	5×5	6×6	7×7	8×8	9×9
Revolutions per minute . . . . .	250	200	190	180	160
Size of Steam Pipe . . . . . inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Size of Exhaust Pipe . . . . . " "	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Diameter of Shaft . . . . . " "	$1\frac{1}{8}$	$1\frac{3}{8}$	2 $\frac{5}{8}$	$2\frac{3}{8}$	$2\frac{5}{8}$
Diameter of Fly-Wheel . . . . . " "	20	24	32	36	42
Face of Fly Wheel . . . . . " "	5	6	7	8	9
Floor Space required . . . . . " "	29×34	31×38	41×46	46×52	48×57
Weight of Engine . . . . . lbs	600	900	1300	1800	2400

In ordering, state distinctly:

**CLASS B, DISC-CRANK HORIZONTAL ENGINE.**

### TABLE OF DIMENSIONS OF "FULL LENGTH TUBE" VERTICAL TUBULAR BOILERS.



Number of size.....	1	2	3	3½	4	5	6	7	8	9
Horse-power, as usually rated.....	4	5	6	6	7	9	11	12	14	16
Diameter of Boiler, in inches.....	24	24	24	27	30	30	30	36	36	36
Height of Boiler, in feet.....	4	5	6	5	5	6	7	6	7	8
Diameter of Furnace, in inches.....	19	19	19	21	24	24	24	30	30	30
Height of Furnace, in inches.....	23	23	23	27	27	27	27	27	27	27
Thickness of Shell, in inches.....	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼
Thickness of Heads, in inches.....	⅜	⅜	⅜	⅜	⅜	⅜	⅜	⅜	⅜	⅜
Thickness of Furnace Plate, in inches.....	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2
No. of Tubes (all 2-in. diameter).....	24	24	24	30	42	42	42	60	60	60
Length of Tubes, in inches.....	25	37	49	34	34	46	58	46	58	70
Diameter of Stack, in inches.....	8	8	8	10	10	10	10	14	14	14
Weight of Boiler, without Fixtures, lbs., about.....	900	1000	1100	1100	1200	1400	1600	1700	2100	2500
Weight of Boiler, with Fixtures, lbs., about.....	1300	1400	1500	1500	1800	2000	2200	2300	2700	3100

### TABLE OF DIMENSIONS—CONTINUED.

Number of size.....	10	11	12	13	14	15
Horse-power, as usually rated.....	20	23	27	30	35	40
Diameter of Boiler, in inches.....	42	42	42	48	48	48
Height of Boiler, in feet.....	7	8	9	8	9	10
Diameter of Furnace, in inches.....	36	36	36	42	42	42
Height of Furnace, in inches.....	30	30	30	30	30	30
Thickness of Shell, in inches.....	⅝	⅝	⅝	⅝	⅝	⅝
Thickness of Heads, in inches.....	⅜	⅜	⅜	⅜	⅜	⅜
Thickness of Furnace Plate, in inches.....	⅝	⅝	⅝	⅝	⅝	⅝
No. of Tubes (all 2-in. diameter).....	84	84	84	120	120	120
Length of Tubes, in inches.....	56	68	80	68	80	92
Diameter of Stack, in inches.....	16	16	16	20	20	20
Weight of Boiler, without Fixtures, lbs., about.....	2800	3200	3600	4000	4500	5000
Weight of Boiler, with Fixtures, lbs., about.....	3700	4100	4500	5400	5900	6400

### STEAM GENERATORS.

These Steam Generators are intended for heating water, boiling clothes, making starch, etc., in hand laundries. They are tested at about forty pounds pressure. The water supply to the boiler is automatically regulated by a brass float and valve which shuts off the water when it reaches the right height and allows more to enter as needed. In sizes Nos. 1 G and 2 G the float and valve are placed inside of the steam dome, while in Nos. 3 G and 4 G they are contained in an iron float-box (Z) outside of the dome but attached to the latter by pipes (2, 4).

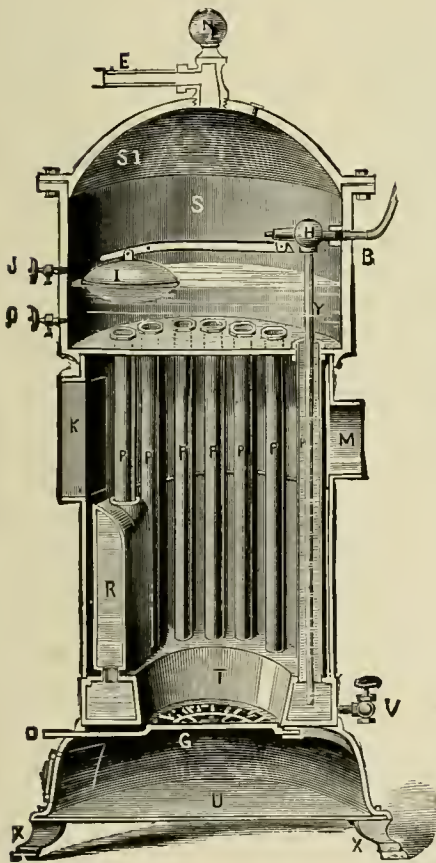
Where the Generators are to be used in cities or towns having water-works, the water supply pipe (B) is attached directly to a hydrant. Where there is no hydrant pressure, a strong, tight barrel or tank is placed on a support opposite the top of the generator, and filled with water from a hole in the head, which is then plugged up. A small pipe from the dome carries steam to the top of the barrel to force the water into the generator through a pipe from the bottom of the barrel.

A pipe (E) carries steam to where it is needed for use. More pipes can be used if desired. The safety valve (N) is combined with a vacuum valve to prevent matter being sucked up into the boiler through the steam pipe when there is no steam up.

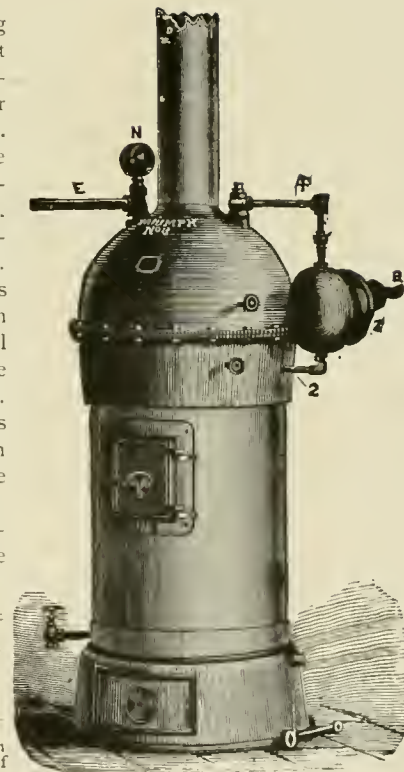
Full instructions for setting up and using are sent with every generator. Please state in ordering whether the water connection will be made with a hydrant or supply barrel.

Size.	Horse Power.	Diameter.	Height.	Size of Fire-box.	Shipping Wt.
No. 1 G.	$\frac{3}{4}$	15 in.	48 in.	10 x 24 in.	350 lbs.
No. 2 G.	1	17 in.	50 in.	12 x 24 in.	450 lbs.
No. 3 G.	2	22 in.	56 in.	16 x 26 in.	900 lbs.
No. 4 G.	2½	22 in.	63 in.	16 x 33 in.	960 lbs.

The fixtures include an ash-box, grate, shaker, combined safety and vacuum valve, gauge cocks, blow-off valve and 3½ feet of  $\frac{3}{4}$  in. steam hose with 2½ ft of iron pipe to convey steam for heating or cooking. We also furnish  $\frac{3}{8}$  inch angle valve and nipple to connect with a water supply pipe from a hydrant, or, 5½ ft. of  $\frac{1}{2}$  in. rubber hose and 4  $\frac{3}{8}$  in. iron nipples to make the two connections with a water supply barrel.

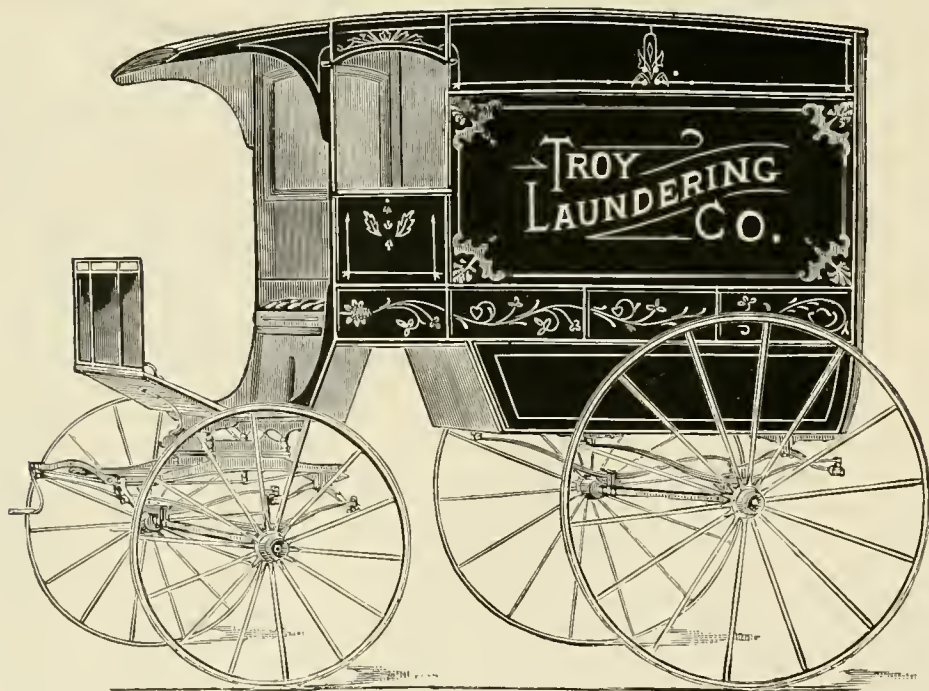


Sectional cut of sizes Nos. 1 G and 2 G



Cut of size No. 3 G or 4 G with float box.

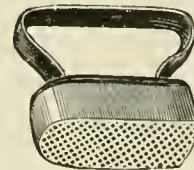




### WAGONS.

THE above cut illustrates one of the many laundry wagons which we are prepared to furnish to the trade. We carry in stock wagons of the latest designs, from the plain canvas body and top to a full paneled top with beveled back corners, double doors, lamps, etc. These wagons are made of the very best material.



**SPECIALTIES FOR LAUNDRY USE.****SAD IRONS.****TROY POLISHING IRONS.****CAST IRON AND WIRE IRON STANDS.****IRON HOLDERS. COLLAR STRINGERS. LAUNDRY NETS. EYELET RAISERS.****PURE TALLOW SOAP.****HANDY BLUING BOOK.****BLUING.**

We manufacture a superior laundry bluing, which gives Troy work the beautiful and desirable color that renders it so famous. It can be furnished in either liquid or dry state. The dry blue, put up in compact boxes of one pound each, is both cheaper and more convenient for shipment. If you want superior work use this bluing. No other equals it.

**INDELIBLE INK.**

This ink withstands the bleach, and is plain and legible until the fabric is worn out. Does not thicken, and flows readily from the pen. We guarantee it will give perfect satisfaction.

**FOR SOFTENING WATER**

**DOUBLE CONCENTRATED POWDERED 98%  
CAUSTIC SODA.**

PACKED FOR LAUNDRY USE IN TEN-POUND AIR-TIGHT TINS.

**FOR MAKING LAUNDRY SOAP**

**REAL CAUSTIC POTASH.**

PACKED FOR LAUNDRY USE IN TWENTY-  
POUND AIR-TIGHT TINS.

**FOR BLEACHING AND WHITENING PURPOSES**

**EXTRA STRONG CHLORIDE OF LIME  
OR  
BLEACHING POWDER.**

PACKED FOR LAUNDRY USE IN TEN-POUND AIR-TIGHT TINS.

**FOR FINE WASHING PURPOSES**

**REFINED PEARL ASHES.**

PACKED FOR LAUNDRY USE IN TEN-  
POUND AIR-TIGHT TINS.

Full and plain directions for making soap, softening water and bleaching, or the manufacturing of a cheap and efficient bleaching liquid, by the use of the above named articles, are given in the "Laundry Guide," a convenient little book which every laundryman should have and preserve for reference. We will mail it free upon application.

# PULLEYS, SHAFTING, WROUGHT IRON PIPES, ETC., ETC.

## FRICTION PULLEYS.

These pulleys are very desirable for driving centrifugal extractors, avoiding the slipping of the belt in starting up the machine.

Face in Inches.	DIAMETER IN INCHES.								Face in Inches.		
	8	10		12	14		15	16		18	20
2	4.50	.....		6.00	.....		7.50	8.00	9.00	.....	2
3	5.00	5.50		6.00	7.00		7.50	8.00	9.00	10.00	3
4	.....	.....		6.00	7.50		8.00	8.50	9.75	11.00	4

## IRON PULLEYS.

Face in Inches.	DIAMETER IN INCHES.																																Face in Inches.				
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	32	34	36	38		40			
2	1.65	1.75	1.75	1.85	2.00	2.25	2.35	2.50	2.60	2.75	3.00	3.10	3.25	3.50	3.65	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.50	6.00	6.50	7.00	8.00	8.50	.....	.....	.....	.....	.....	.....	2	
3	1.80	1.90	2.00	2.15	2.25	2.50	2.55	2.75	2.85	3.00	3.25	3.35	3.45	3.75	3.90	4.00	4.35	4.50	4.75	5.00	5.25	5.50	6.00	6.50	7.00	7.50	8.50	9.00	.....	.....	.....	.....	.....	.....	.....	.....	3
4	1.95	2.05	2.25	2.35	2.50	2.75	2.75	3.00	3.10	3.25	3.50	3.65	3.85	4.10	4.30	4.45	5.00	5.25	5.50	5.75	5.85	6.10	6.50	7.00	7.50	8.00	9.00	9.50	10.50	11.25	12.00	12.75	14.75	15.00	.....	.....	4
5	2.10	2.25	2.50	2.55	2.75	3.00	3.00	3.25	3.35	3.50	3.75	4.00	4.20	4.40	4.75	4.95	5.40	5.75	6.00	6.25	6.50	6.85	7.25	7.65	8.15	8.50	9.50	10.50	11.25	12.00	12.75	14.12	16.25	16.25	.....	.....	5
6	2.25	2.45	2.75	2.80	3.00	3.25	3.25	3.50	3.60	4.00	4.10	4.35	4.65	4.90	5.20	5.50	6.25	6.50	6.75	7.00	7.25	7.65	8.10	8.60	9.05	9.50	11.00	11.50	12.25	13.00	13.75	15.50	17.00	17.00	.....	.....	6
7	2.65	3.00	3.00	3.00	3.25	3.50	3.50	3.75	3.95	4.25	4.50	4.75	5.05	5.45	5.75	6.05	6.75	7.00	7.50	7.75	8.05	8.45	8.95	9.45	10.00	10.60	11.75	12.50	13.87	14.75	15.00	16.88	18.13	18.13	.....	.....	7
8	2.85	3.25	3.25	3.25	3.50	3.75	3.75	4.05	4.35	4.60	5.00	5.25	5.65	6.00	6.35	6.65	7.25	7.50	8.25	8.40	9.00	9.50	9.90	10.55	11.10	11.70	12.75	13.50	14.50	15.50	16.25	18.25	19.25	19.25	.....	.....	8
9	3.00	3.50	3.50	3.55	3.65	4.00	4.10	4.40	4.65	5.00	5.30	5.75	6.10	6.50	6.85	7.25	7.75	8.15	9.00	9.75	9.75	10.20	11.00	11.50	12.20	12.90	13.75	14.50	15.50	16.75	17.62	19.88	20.88	20.88	.....	.....	9
10	3.15	3.70	3.70	3.80	3.95	4.25	4.45	4.75	5.05	5.50	5.75	6.25	6.70	7.25	7.80	7.90	8.50	8.85	9.70	10.50	10.50	11.10	12.85	12.60	13.50	14.25	14.90	15.75	16.50	18.00	19.00	21.50	22.50	22.50	.....	.....	10
11	3.30	4.20	4.20	4.30	4.40	4.80	5.10	5.40	5.80	6.25	6.75	7.25	7.75	8.00	8.50	9.00	9.60	10.50	11.25	11.50	12.10	12.90	13.75	14.60	15.45	16.30	17.15	17.50	20.25	20.50	23.13	26.50	26.50	.....	.....	11	
12	3.45	4.80	4.80	4.90	5.15	5.20	5.85	6.20	6.75	7.25	7.75	8.25	8.50	9.50	9.75	10.40	11.50	12.00	12.40	13.15	14.05	15.00	15.90	16.85	17.70	18.60	18.50	20.50	22.00	24.75	27.00	27.00	.....	.....	12		

## WOOD SPLIT PULLEYS.

Face in Inches.	DIAMETER IN INCHES.																																Face in Inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	38	40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
3	2.50	2.60	2.70	2.80	2.90	3.00	3.10	3.30	3.50	3.70	3.90	4.10	4.40	4.70	4.90	5.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
4	2.65	2.75	2.85	2.95	3.10	3.25	3.45	3.65	3.85	4.05	4.25	4.45	4.75	4.95	5.20	5.40	5.80	6.35	6.78	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.10	10.60	11.10	11.60	12.10	12.60	13.10	13.60	14.10	14.60	15.10	15.60	16.10	16.60	17.10	17.60	18.10	18.60	19.10	19.60	20.10	20.60	21.10	21.60	22.10	22.60	23.10	23.60	24.10	24.60	25.10	25.60	26.10	26.60	27.10	27.60	28.10	28.60	29.10	29.60	30.10	30.60	31.10	31.60	32.10	32.60	33.10	33.60	34.10	34.60	35.10	35.60	36.10	36.60	37.10	37.60	38.10	38.60	39.10	39.60	40.10	40.60	41.10	41.60	42.10	42.60	43.10	43.60	44.10	44.60	45.10	45.60	46.10	46.60	47.10	47.60	48.10	48.60	49.10	49.60	50.10	50.60	51.10	51.60	52.10	52.60	53.10	53.60	54.10	54.60	55.10	55.60	56.10	56.60	57.10	57.60	58.10	58.60	59.10	59.60	60.10	60.60	61.10	61.60	62.10	62.60	63.10	63.60	64.10	64.60	65.10	65.60	66.10	66.60	67.10	67.60	68.10	68.60	69.10	69.60	70.10	70.60	71.10	71.60	72.10	72.60	73.10	73.60	74.10	74.60	75.10	75.60	76.10	76.60	77.10	77.60	78.10	78.60	79.10	79.60	80.10	80.60	81.10	81.60	82.10	82.60	83.10	83.60	84.10	84.60	85.10	85.60	86.10	86.60	87.10	87.60	88.10	88.60	89.10	89.60	90.10	90.60	91.10	91.60	92.10	92.60	93.10	93.60	94.10	94.60	95.10	95.60	96.10	96.60	97.10	97.60	98.10	98.60	99.10	99.60	100.10	100.60	101.10	101.60	102.10	102.60	103.10	103.60	104.10	104.60	105.10	105.60	106.10	106.60	107.10	107.60	108.10	108.60	109.10	109.60	110.10	110.60	111.10	111.60	112.10	112.60	113.10	113.60	114.10	114.60	115.10	115.60	116.10	116.60	117.10	117.60	118.10	118.60	119.10	119.60	120.10	120.60	121.10	121.60	122.10	122.60	123.10	123.60	124.10	124.60	125.10	125.60	126.10	126.60	127.10	127.60	128.10	128.60	129.10	129.60	130.10	130.60	131.10	131.60	132.10	132.60	133.10	133.60	134.10	134.60	135.10	135.60	136.10	136.60	137.10	137.60	138.10	138.60	139.10	139.60	140.10	140.60	141.10	141.60	142.10	142.60	143.10	143.60	144.10	144.60	145.10	145.60	146.10	146.60	147.10	147.60	148.10	148.60	149.10	149.60	150.10	150.60	151.10	151.60	152.10	152.60	153.10	153.60	154.10	154.60	155.10	155.60	156.10	156.60	157.10	157.60	158.10	158.60	159.10	159.60	160.10	160.60	161.10	161.60	162.10	162.60	163.10	163.60	164.10	164.60	165.10	165.60	166.10	166.60	167.10	167.60	168.10	168.60	169.10	169.60	170.10	170.60	171.10	171.60	172.10	172.60	173.10	173.60	174.10	174.60	175.10	175.60	176.10	176.60	177.10	177.60	178.10	178.60	179.10	179.60	180.10	180.60	181.10	181.60	182.10	182.60	183.10	183.60	184.10	184.60	185.10	185.60	186.10	186.60	187.10	187.60	188.10	188.60	189.10	189.60	190.10	190.60	191.10	191.60	192.10	192.60	193.10	193.60	194.10	194.60	195.10	195.60	196.10	196.60	197.10	197.60	198.10	198.60	199.10	199.60	200.10	200.60	201.10	201.60	202.10	202.60	203.10	203.60	204.10	204.60	205.10	205.60	206.10	206.60	207.10	207.60	208.10	208.60	209.10	209.60	210.10	210.60	211.10	211.60	212.10	212.60	213.10	213.60	214.10	214.60	215.10	215.60	216.10	216.60	217.10	217.60	218.10	218.60	219.10	219.60	220.10	220.60	221.10	221.60	222.10	222.60	223.10	223.60	224.10	224.60	225.10	225.60	226.10	226.60	227.10	227.60	228.10	228.60	229.10	229.60	230.10	230.60	231.10	231.60	232.10	232.60	233.10	233.60	234.10	234.60	235.10	235.60	236.10	236.60	237.10	237.60	238.10	238.60	239.10	239.60	240.10	240.60	241.10	241.60	242.10	242.60	243.10	243.60	244.10	244.60	245.10	245.60	246.10	246.60	247.10	247.60	248.10	248.60	249.10	249.60	250.10	250.60	251.10	251.60	252.10	252.60	253.10	253.60	254.10	254.60	255.10	255.60	256.10	256.60	257.10	257.60	258.10	258.60	259.10	259.60	260.10	260.60	261.10	261.60	262.10	262.60	263.10	263.60	264.10	264.60	265.10	265.60	266.10	266.60	267.10	267.60	268.10	268.60	269.10	269.60	270.10	270.60	271.10	271.60	272.10	272.60	273.10	273.60	274.10	274.60	275.10	275.60	276.10	276.60	277.10	277.60	278.10	278.60	279.10	279.60	280.10	280.60	281.10	281.60	282.10	282.60	283.10	283.60	284.10	284.60	285.10	285.60	286.10	286.60	287.10	287.60	288.10	288.60	289.10	289.60	290.10	290.60	291.10	291.60	292.10	292.60	293.10	293.60	294.10	294.60	295.10	295.60	296.10	296.60	297.10	297.60	298.10	298.60	299.10	299.60	300.10	300.60	301.10	301.60	302.10	302.60	303.10	303.60	304.10	304.60	305.10	305.60	306.10	306.60	307.10	307.60	308.10	308.60	309.10	309.60	310.10	310.60	311.10	311.60	312.10	312.60	313.10	313.60	314.10	314.60	315.10	315.60	316.10	316.60	317.10	317.60	3

**SHAFTING.**

Inches Diameter .....	$1\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$
Prices per foot.....	\$0.75	\$0.80	\$0.87	\$1.05	\$1.25	\$1.50	\$1.80	\$2.15
Weight per foot, finished.....	3.77	5.52	7.61	10.03	12.80	15.89	19.31	23.06

**SUGGESTIONS WHEN ORDERING SHAFTING.**

State whether one end only or both ends are to be key-seated, and when fast collars are wanted give *exact* location on shaft.

**COLLARS, WITH SET-SCREWS.**

Inches Diameter, bore.....	$1\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$
Price, each .....	\$0.80	\$1.00	\$1.20	\$1.40	\$1.60	\$1.80	\$2.10	\$2.40

**COUPLINGS.**

Diameter of Shaft.....	$1\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$
Price per Pair .....	\$7 75	\$8.00	\$8 50	\$9.00	\$10.50	\$12.50	\$15.25	\$18.25

**LATEST IMPROVED ADJUSTABLE DROP HANGERS.**

DIAMETER OF SHAFT.....				$1\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$
Drop in inches, 8 .....				\$4 00	....	....	....	....	....	....	....
“ “ “ 10 .....				4 40	\$4 90	\$5 70	\$7 10	\$8 70	\$10 20	....	....
“ “ “ 12 .....				4 60	5 05	5 90	7 40	9 00	11 00	\$13 10	\$16 00
“ “ “ 15 .....				4 80	5 50	6 50	8 10	10 00	12 50	14 10	17 10
“ “ “ 18 .....				....	....	6 70	8 40	10 40	12 90	15 40	18 40
“ “ “ 20 .....				..	....	7 00	8 70	10 80	13 40	15 90	19 70
“ “ “ 24 .....				..	....	....	9 50	11 70	14 00	17 00	21 00

When ordering hangers give exact bore and drop wanted. Wall Boxes, Post Boxes, Floor Stands, Pillow Blocks, Split Pulleys, and every appurtenance connected with the transmission of power, furnished at shortest notice and lowest price.

**BELTING.**

Size .....	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3½	4	4½	5	5½	6	7	8	9
Price per foot .....	\$0.10	\$0.13	\$0.17	\$0.20	\$0.23	\$0.26	\$0.30	\$0.33	\$0.36	\$0.43	\$0.50	\$0.56	\$0.63	\$0.70	\$0.76	\$0.90	\$1.02	\$1.15

**STEAM TRAPS.**

Size, inches.....	12	15	18
Price, each.....	23.00	36.00	54.00
Capacity, one-inch Pipe, feet .....	1,500	3,500	5,000

**HEAVY RUBBER TUBING.**

Rubber Tubing in any length to suit customers, up to fifty feet.

Internal Diameter .....	⅜	½	¾	1	1¼	1½	1¾	2	2¼
Price per foot .....	\$0.08	\$0.12	\$0.16	\$0.18	\$0.20	\$0.25	\$0.30	\$0.35	\$0.45

The discount on the above prices will be furnished on application.



# STEAM PIPE AND FITTINGS.

## WROUGHT IRON PIPE.

SIZE.	PLAIN, PER FT.	GALVANIZED, PER FT.
1/8	\$0 04	\$0 05
1/4	04	05
3/8	04	05 1/2
1/2	05 1/2	07 1/2
3/4	07 1/2	09 1/2
1	10 1/2	13 1/2
1 1/4	14	18 1/2
1 1/2	23	26
2	30	34
2 1/2	47	53
3	62	68

## BRASS PIPE. IRON PIPE SIZE.

SIZE.	PER FOOT.
1/8	\$0 15
1/4	19
3/8	24
1/2	29
3/4	32
1	46
1 1/4	67
1 1/2	79
2	1 15
2 1/2	1 38
3	2 28

## FITTINGS, VALVES, ETC.

Size, inches.	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6
Elbows, Cast Iron, R. H.	Each	01	05	06	09	13	20	25	40	75	1 10	1 35	1 60	2 50	2 85	3 90
Elbows, Cast Iron, R. & L.	"	05	06	07	11	16	23	29	46	85	1 25	1 50	2 10	3 00	3 25	4 50
Elbows, Cast Iron, Reducing	"	06	07	09	13	20	30	38	60	1 10	1 50	2 00	2 50	3 50	4 00	5 50
Tees, Cast Iron	"	06	07	09	13	20	30	38	60	1 10	1 50	2 00	2 50	3 50	4 00	5 50
Tees, Cast Iron, Reducing	"	11	15	23	35	44	70	1 25	1 75	2 30	2 90	4 00	4 60	6 00	6 35	7 80
Crosses, Cast Iron	"	12	18	28	40	50	80	1 50	2 20	2 70	3 50	5 00	5 70	7 00	7 80	9 00
Crosses, Cast Iron, Reducing	"	14	21	32	46	58	92	1 70	2 50	3 00	4 00	5 00	6 00	6 60	9 00	9 80
Return Bends, Cast Iron, Close Pat.	"	10	15	22	34	45	75	1 50	2 25	2 75	3 50	5 00	6 00	6 60	9 00	9 80
Return Bends, Cast Iron, Open Pat.	"	20	30	40	60	68	1 15	1 75	2 25	3 25	4 50	6 00	6 00	9 00	11 00	11 00
Plugs, Cast Iron	"	03	03	04	05	06	10	13	20	35	50	75	85	1 35	1 75	2 40
45° Elbows, Cast Iron	"	10	10	15	20	26	35	50	1 30	1 60	1 90	2 50	3 50	4 50	5 50	5 50
Y Bends, Cast Iron	"	25	30	40	60	60	90	1 25	2 25	3 25	4 50	6 00	6 00	9 00	11 00	11 00
Return Bends, C. Iron, Back Outlet	"	30	40	60	60	90	1 25	2 25	3 25	4 50	6 00	6 00	9 00	11 00	11 00	11 00
Caps	"	03	04	05	08	12	16	24	32	45	70	85	1 20	1 60	2 00	2 35
Reducers	"	03	03	05	10	16	20	28	45	70	1 00	1 50	1 85	2 75	3 00	4 00
Lock Nuts	"	02	03	04	05	07	09	11	18	40	50	70	95	1 25	1 35	1 90
Bushings	"	06	07	09	13	17	27	42	60	80	1 00	1 50	1 85	2 50	2 50	3 50
Unions	"	15	18	20	28	34	46	60	80	1 50	2 10	3 00	4 00	5 00	6 00	6 50
Flange Unions	"	65	70	85	1 15	1 55	2 30	3 25	5 20	10 00	14 00	20 00	25 00	30 00	35 00	40 00
Nipples, Short	"	05	05	06	07	09	10	14	17	25	56	75	1 00	1 25	1 75	2 00
Nipples, Long	"	07	07	09	10	11	15	20	25	35	75	95	1 00	1 60	2 25	2 60
Complings, Wrought Iron	"	05	05	06	07	10	13	17	21	28	40	60	80	1 00	1 50	1 65
Globe and Angle Valves, Brass	"	60	60	75	1 00	1 35	1 80	2 80	3 90	5 90	11 25	16 00	20 00	25 00	30 00	35 00
Check Valves, Brass	"	50	50	60	85	1 15	1 55	2 30	3 25	5 20	10 00	14 00	20 00	25 00	30 00	35 00
Hose Valves, Brass	"	3 25	4 00	5 00	7 00	8 50	12 00	20 00	30 00	40 00	50 00	60 00	70 00	80 00	90 00	100 00
Safety Valves, Brass	"	2 00	2 25	2 75	3 50	5 00	7 00	8 50	12 00	20 00	30 00	40 00	50 00	60 00	70 00	80 00
Steam Cocks, Brass	"	70	70	75	1 10	1 50	2 25	3 75	4 80	7 25	14 00	20 00	25 00	30 00	35 00	40 00
Steam Cock Wrench	"	07	09	14	19	25	44	56	1 00	1 50	2 00	2 50	3 00	3 50	4 00	4 50
Air Cocks	"	40	45	50	60	70	80	90	100	110	120	130	140	150	160	170
Service Cocks, Brass	"	55	65	75	1 00	1 40	2 20	3 00	5 00	7 40	10 00	13 00	16 00	20 00	25 00	30 00
Service Cocks, Br's. h'vy. with Stops	"	1 05	1 55	2 20	3 25	4 50	7 40	10 00	13 00	16 00	20 00	25 00	30 00	35 00	40 00	45 00
Globe and Angle Valves, Iron, with Yoke, Screwed	"	1 10	1 25	1 60	2 20	2 80	4 00	5 50	8 00	10 50	14 50	18 00	21 00	25 00	32 00	44 00
Check Valves, Iron, Screwed	"	9 75	12 50	17 50	21 50	25 00	30 00	36 00	44 00	54 00	66 00	80 00	96 00	114 00	138 00	168 00
Check Valves, Iron, Flanged	"	3 75	6 25	9 75	12 75	16 25	21 25	27 25	34 25	42 25	52 25	64 25	78 25	94 25	112 25	138 25
Safety Valves, Iron, Screwed	"	5 50	8 25	12 75	16 25	21 25	27 25	34 25	42 25	52 25	64 25	78 25	94 25	112 25	138 25	168 25
Safety Valves, Iron, Flanged	"	8 00	13 00	18 00	24 00	30 00	38 00	48 00	60 00	75 00	94 00	116 00	142 00	172 00	208 00	250 00
Bibb Cocks	Per doz	12 00	15 00	23 00	35 00	56 00	78 00	100 00	160 00	240 00	360 00	540 00	840 00	1260 00	1800 00	2520 00
Compression, Common	"	9 50	10 50	19 00	33 00	50 00	70 00	90 00	140 00	210 00	310 00	460 00	690 00	1020 00	1500 00	2100 00
Compression, Finished	"	10 00	11 00	20 00	37 00	55 00	75 00	100 00	150 00	220 00	330 00	490 00	720 00	1080 00	1620 00	2280 00
Lever, Finished	"	13 00	16 00	26 00	39 00	64 00	90 00	120 00	180 00	270 00	400 00	580 00	860 00	1280 00	1920 00	2760 00
Lever, Common, for Hose	"	16 00	25 00	38 00	60 00	84 00	110 00	150 00	220 00	330 00	490 00	720 00	1080 00	1620 00	2280 00	3240 00
Lever, Finished, for Hose	"	17 00	28 00	42 00	68 00	96 00	130 00	180 00	260 00	390 00	570 00	840 00	1260 00	1860 00	2700 00	3780 00
Compression, Fin., for Hose	"	12 00	22 00	30 00	42 00	60 00	80 00	110 00	160 00	240 00	360 00	540 00	840 00	1260 00	1800 00	2520 00
Compression, Com., for Hose	"	11 50	21 00	28 00	36 00	50 00	68 00	90 00	130 00	190 00	280 00	420 00	630 00	960 00	1440 00	2010 00
Floor Plates, Iron	Each	06	08	10	15	18	23	30	40	50	60	70	80	90	100	110
Straight Way Valve, Quick Opening	"	10	12	16	25	35	50	85	1 15	1 50	3 00	5 00	8 00	12 00	18 00	27 00
Iron Body, Screwed or Flanged	"	15	18	24	35	45	65	1 10	1 50	2 00	3 75	6 50	10 00	15 00	22 00	33 00
Brass Elbows, Rough	"	12	15	20	30	45	70	1 00	1 25	1 75	4 00	6 00	9 00	13 00	19 00	28 00
Brass Elbows, Finished	"	20	25	35	50	65	1 00	1 50	2 00	2 75	5 50	8 00	12 00	18 00	27 00	40 00
Brass Tees, Rough	"	08	10	15	20	30	40	60	75	1 25	2 00	3 00	4 00	5 00	6 00	7 00
Brass Tees, Finished	"	13	15	20	25	35	45	70	85	1 55	2 50	3 75	5 00	6 25	8 00	11 00
Brass Caps, Rough	"	08	10	15	20	30	40	60	75	1 25	2 00	3 00	4 00	5 00	6 00	7 00
Brass Caps, Finished	"	13	15	20	25	35	45	70	85	1 55	2 50	3 75	5 00	6 25	8 00	11 00
Expansion Pipe Hangers	"	22	25	30	38	44	55	65	80	1 15	1 50	2 00	2 50	3 00	3 50	4 00
Pipe Hooks	Per 100	45	55	65	80	1 00	1 30	1 60	2 00	2 40	3 00	3 60	4 20	5 00	6 00	7 00
Float Valves and Float	Per doz	32 00	50 00	68 00	85 00	100 00	120 00	150 00	200 00	280 00	400 00	560 00	800 00	1120 00	1600 00	2240 00

## USEFUL INFORMATION FOR LAUNDRYMEN.

Laundrymen will frequently find the information contained in the following rules and tables of great use to them.

## RULES TO CALCULATE THE SPEED OF PULLEYS.

**EXAMPLE 1.** To find the size of driving pulley: Multiply the diameter of the driven by the number of revolutions it should make and divide the product by the revolutions of the driver. The quotient will be the size of the driver.

**EXAMPLE 2.** The diameter and revolutions of the driver being given, to find the diameter of the driven that shall make a given number of revolutions: Multiply the diameter of the driver by its number of revolutions, and divide the product by the number of revolutions of the driven. The quotient will be the size of the driven.

**EXAMPLE 3.** To find number of revolutions of the driven pulley: Multiply the diameter of the driver by its number of revolutions, and divide by diameter of driven. The quotient will be the number of revolutions of the driven.

**EXAMPLE 4.** To find the speed of a countershaft: Multiply the speed of the line shaft by the diameters of the drivers, and divide the product by the product obtained by multiplying the diameters of the driven pulleys. The quotient will be the speed of the countershaft.

## DIAMETERS AND CIRCUMFERENCES OF CIRCLES, AND THE CONTENTS IN GALLONS AT ONE FOOT IN DEPTH.

Diam.		Circ.		Area in feet.	Gallons.	Diam.		Circ.		Area in feet.	Gallons.	Diam.		Circ.		Area in feet.	Gallons.
Ft.	In.	Ft.	In.	1 ft. Depth.	1 ft. Depth.	Ft.	In.	Ft.	In.	1 ft. Depth.	1 ft. Depth.	Ft.	In.	Ft.	In.	1 ft. Depth.	1 ft. Depth.
2		6	3 <sup>3</sup> / <sub>8</sub>	3.1416	23.4940	3	7	11	3	10.0846	75.4166	5	1	15	11 <sup>3</sup> / <sub>8</sub>	20.2947	151.7718
2	1	6	6 <sup>1</sup> / <sub>2</sub>	3.4087	25.4016	3	8	11	6 <sup>1</sup> / <sub>8</sub>	10.5591	78.9652	5	2	16	22 <sup>1</sup> / <sub>4</sub>	20.9656	157.7891
2	2	6	9 <sup>5</sup> / <sub>8</sub>	3.6869	27.5720	3	9	11	9 <sup>5</sup> / <sub>8</sub>	11.0446	82.5959	5	3	16	5 <sup>3</sup> / <sub>4</sub>	21.6475	162.8896
2	3	7	3 <sup>4</sup> / <sub>8</sub>	3.9760	29.7340	3	10	12	5 <sup>1</sup> / <sub>2</sub>	11.5409	86.3074	5	4	16	9	22.3400	167.0674
2	4	7	7 <sup>3</sup> / <sub>8</sub>	4.2760	32.6976	3	11	12	3 <sup>5</sup> / <sub>8</sub>	12.0481	90.1004	5	5	17	1 <sup>1</sup> / <sub>8</sub>	23.0437	172.3300
2	5	7	7	4.5869	34.3027	4	..	12	6 <sup>3</sup> / <sub>4</sub>	12.5664	93.9754	5	6	17	3 <sup>1</sup> / <sub>4</sub>	23.7583	177.6740
2	6	7	10 <sup>1</sup> / <sub>4</sub>	4.9087	36.7092	4	1	12	9 <sup>7</sup> / <sub>8</sub>	13.0952	97.9310	5	7	17	6 <sup>1</sup> / <sub>8</sub>	24.4835	183.0973
2	7	8	1 <sup>3</sup> / <sub>8</sub>	5.2413	39.1964	4	2	13	1	13.6353	101.9701	5	8	17	9 <sup>5</sup> / <sub>8</sub>	25.2199	188.6045
2	8	8	4 <sup>1</sup> / <sub>2</sub>	5.5850	41.7668	4	3	13	4 <sup>1</sup> / <sub>8</sub>	14.1862	103.0300	5	9	18	3 <sup>4</sup> / <sub>8</sub>	25.9672	194.1930
2	9	8	7 <sup>5</sup> / <sub>8</sub>	5.9395	44.4179	4	4	13	7 <sup>1</sup> / <sub>4</sub>	14.7479	110.2907	5	10	18	3 <sup>3</sup> / <sub>8</sub>	26.7251	199.8610
2	10	8	10 <sup>3</sup> / <sub>4</sub>	6.3049	47.1505	4	5	13	10 <sup>1</sup> / <sub>2</sub>	15.3206	114.5735	5	11	18	7 <sup>1</sup> / <sub>8</sub>	27.4943	205.6133
2	11	9	1 <sup>7</sup> / <sub>8</sub>	6.6813	49.9654	4	6	14	1 <sup>3</sup> / <sub>8</sub>	15.9043	118.9386	6	..	18	10 <sup>1</sup> / <sub>4</sub>	28.2744	211.4472
3	..	9	5	7.0686	52.8618	4	7	14	4 <sup>3</sup> / <sub>8</sub>	16.4986	123.3830	6	3	19	7 <sup>1</sup> / <sub>2</sub>	30.6796	229.4342
3	1	9	8 <sup>1</sup> / <sub>4</sub>	7.4666	55.8382	4	8	14	7 <sup>3</sup> / <sub>8</sub>	17.1041	127.9112	6	4	20	4 <sup>7</sup> / <sub>8</sub>	33.1831	248.1564
3	2	9	11 <sup>3</sup> / <sub>8</sub>	7.8757	58.8976	4	9	14	11	17.7205	132.5209	6	5	21	2 <sup>3</sup> / <sub>8</sub>	35.7847	267.6122
3	3	10	2 <sup>1</sup> / <sub>2</sub>	8.2957	62.0386	4	10	15	2 <sup>1</sup> / <sub>8</sub>	18.3476	137.2105	7	..	21	11 <sup>3</sup> / <sub>8</sub>	38.4840	287.8032
3	4	10	5 <sup>5</sup> / <sub>8</sub>	8.7265	65.2602	4	11	15	5 <sup>1</sup> / <sub>4</sub>	18.9858	142.0582	7	3	22	9 <sup>1</sup> / <sub>4</sub>	41.2825	308.7270
3	5	10	8 <sup>3</sup> / <sub>4</sub>	9.1683	68.5193	5	..	15	8 <sup>1</sup> / <sub>2</sub>	19.6350	146.8384	7	4	23	6 <sup>3</sup> / <sub>4</sub>	44.1787	330.3859
3	6	10	11 <sup>7</sup> / <sub>8</sub>	9.6211	73.1504												

The U. S. Standard Gallon contains 231 cubic inches, and weighs 8<sup>1</sup>/<sub>2</sub> pounds. A cubic foot of water contains 7.48 gallons, and weighs 62<sup>1</sup>/<sub>2</sub> pounds.

It is easy to calculate the contents of the tank in gallons in the following manner: Multiply the length, breadth and depth of the tank together; this will give the capacity of the tank in cubic feet; each cubic foot of water is equal to 6<sup>1</sup>/<sub>4</sub> gallons, consequently the cubical capacity of the tank requires to be multiplied by 6<sup>1</sup>/<sub>4</sub> to get the contents in gallons.

**EXAMPLE.** Suppose the tank measures 10 by 8 by 4 feet deep, the cubical capacity is therefore 320 cubic feet; this multiplied by 6<sup>1</sup>/<sub>4</sub> gives 2,000 gallons as the contents of the tank.

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